INTERNSHIP IN TEACHING

-A HAND BOOK FOR STUDENT TEACHERS,

TEACHERS AND TEACHER EDUCATORS

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Preface

Dear Student Teacher/ Co-operating Teacher/ Teacher Educator,

This is time to begin with the most significant practical programme to make the student teacher as a teacher in the professional world of teaching. Internship is the most rewarding phase of the professional preparation of teacher. The beginning of VII semester of B.A.Ed./B.Sc.Ed. and M.Sc.Ed., the student teacher will be provided the opportunity to apply in a practical situation whatever that they have learned throughout the preceding semesters of teacher preparation. During this phase, an opportunity is given to reflect continuously to monitor the progress of the student teacher in the building the teacher competencies. This internship experience will be intensive and will be prepared to devote all the time and energy to become an effective and efficient teacher.

This handbook will provide the guidelines and expectations from student teachers, teacher educators and cooperating teachers during the internship in teaching. The student teachers, teacher educators and cooperating teachers will read and understand the contents of the handbook.

The teaching internship in teaching is of great importance in the professional preparation of the teacher. This is not only to assess the student teacher based on the evaluation profile and based on the reflections on student teachers teaching, but the feedback written by the teacher educators and cooperating teachers will provide important information to prospective teachers. In addition, successfully completing the internship in teaching programme will help the student teacher to step in to the teacher education.

The Regional Institute of Education-NCERT, Mysore has selected Jawahar Navodaya Vidyalayas for the purpose of internship in teaching. The student teachers are the positive representatives of the Regional Institute of Education-NCERT, Mysore and practicing student teacher. The student teachers are free to contact the internship committee as well as the faculty of the Regional Institute of Education-NCERT, Mysore for any assistance at any time during the internship.

With Best Wishes

Prof. D.G. Rao, Principal

CHAPTER 1

CONCEPT AND SCOPE OF INTERNSHIP

1.1 WHAT IS INTERNSHIP?

Field experience occupies a place of importance in all Professional Courses. As a part of pre-service teacher training, the field experience usually known as practice teaching provides an opportunity for the student-teachers to tryout the methods and techniques of teaching which they will have learnt during the course earlier. Student teaching has been accepted as the most important and crucial activity in teacher training. Internship is even more broad based than student teaching. The Regional Institutes of Education have some experience in organizing internship in teaching for their students.

Internship in teaching is an opportunity where the student teacher identifies himself with the school to which he is assigned. While practice teaching to is an important component of the programme, the student teacher participates in every activity of the school in the total school life. During this period, right attitudes interests and abilities are developed shaping the student teacher as a teacher of tomorrow. Internship provides excellent opportunity for the prospective teacher to learn to teach, acquire all the necessary understandings, skills, attitudes and appreciations in a real school-situation. During internship he learns- the art of communication, the ability to solve problems, the tact to handle situations, however delicate and acquires the capacity to think and organize educative and useful programmes for the benefit of his students. All these are done under the supreme guidance of qualified and experienced teachers of the school. Positive correlation between the quality and scope of experiences during internship and success as a beginning teacher, on which there is a general agreement, stresses the importance of student teacher's participation in a wide range of school programmes. In short, internship is a period for the student teacher in which he identifies himself with the school.

1.2 THE RATIONALE

In any professional pre-service course, the theory learnt by the student has to be tried out in a real situation. Field experience provides this opportunity and thereby complements the course. Teaching especially at the under-graduate level is adequately challenging since it calls for the understanding of not only the content but also the pupil who is taught. "In order to teach John, Psychology, one has to understand both John and Psychology". In teacher training programmes, internship provides the opportunity where the student-teacher can find for himself the extent to which the methods and techniques of teaching he has learnt during the course, are useful in a real class room situation. Internship is the period during which the student stays in the school for a certain extended period, mingles with the School Community, gets the first hand knowledge of the school situation and the associated problems, participate in the programmes of the school, organizes new and productive programmes for the benefit of the school, develops in himself the right skills, attitudes, interests and appreciations and makes best use of the expertise and resources in the school to blossom himself as a good teacher who could be an asset to any school providing him vocation in future.

An internee is like an apprentice working under the guidance of highly motivated and experienced teachers of the school. For the first time he faces a cross section of the students which is a mixture of different ability groups often having varied social backgrounds, in a real classroom. While he will have learnt techniques of teaching for different uniform ability groups, he will be called upon to tailor new techniques and methods to suit mixed ability groups and this real challenge gets the best in the internee. It is during the internship that he learns certain time honoured tenets and ethics of teaching profession and lives a simple and disciplined life. It is the period when he should adopt himself to the realistic situation, make best use of whatever resources are available, adjust himself and his needs to whatever is available in his environment and carry on with his duties cheerfully. Internship is the valuable transition between his training and his vocation (or career). To a great extent this transition helps him to be a successful future teacher. Internship experience is a factor which influences, in good measure, the way the shapes himself to be a teacher though this factor may not be decisive.

1.3 OBJECTIVES OF INTERNSHIP

1.3.1 General Objectives

- 1. To bring about a real integration of theory and practice in the education and training of the student teacher.
- 2. To develop in him the ability to recall principles, relate them to practices, study them in operation, apply them. Enrich them with meaning, and develop them further to suit the needs and conditions of the changing situations.
- 3. To develop in him the right interests, attitudes and dispositions, including confidence, which are so important for effective teaching and professional growth and success, and
- 4. To develop in him all the desirable competencies of a good and successful teacher.

1.3.2 Specific Objectives

1. To develop the ability to define clearly the general and specific objectives of teaching the subject, the different units, and the individual lessons.

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- 2. To develop the ability to select units and subject matter suitable to the class, and resource material and aids-ready made, improvised- suitable to the units.
- 3. To develop the ability to plan the lesson effectively with an understanding of the principles of learning and organize the subject matter suitably indicating the appropriate techniques and aids to be used at each stage and for each purpose.
- To develop the ability to prepare the pupils adequately for each lesson and develop it in ways most suitable to the occasion and most appropriate for realizing the objectives set forth.

- 5. To develop the ability to motivate the pupils sufficiently and appropriately, sustain their interest and attention and maintain good relationships and discipline in the class, making class management an easy and smooth function.
- 6. To develop the ability to adjust the programme to the varying needs, interests and abilities of the pupils, while making for maximum group progress.
- 7. To develop the ability, to use different methods and techniques of teaching and use them effectively in appropriate situations.
- 8. To develop the ability to plan the details of the curriculum with the pupils (teacher-pupil planning) and work out resource units, spelling out the experiences, activities, aids techniques, etc.
- 9. To develop the ability to develop and apply different techniques and tools for the continuous evaluation of the achievement and progress of the pupils, taken as individuals and as a group, especially the ability to construct and use oral, written and performance tests.
- 10. To develop the ability to judge the effectiveness of teaching and the success of each programme in relation to the goals, from the participation and performances of the pupils.
- 11. To develop the ability to diagnose the strengths and weaknesses and the achievements and failures of the individual pupils, in relation to the objectives and decide, plan and organize the reinforcement of remedial assistance needed by each.
- 12. To develop the ability to correlate his subject and its teaching with other subjects taught in the class, with other activities in the school with life, so that, the education of the child becomes an integrated programme.
- 13. To develop the ability to plan, organize and guide enrichment activities and field programmes related to the subjects taught.
- 14. To develop the ability to plan, organize and guide various co-curricular activities, which are considered as important constituents of a rich education for the citizens of tomorrow.
- 15. To develop the ability to see the school as organized center of the community and relate the provisions and practices in the school to the needs and conditions of the pupils and of the community.

CHAPTER 2

ASPECTS OF INTERNSHIP

Teaching is a very complex process comprising identification of objectives and their specification in terms of pupil learning, selection and organization of appropriate learning experiences and using suitable learning outcomes. Effectiveness of teaching as a whole, therefore, depends upon how effectively each one of its component act is carried out. These different aspects of teaching will be discussed in the following pages.

2.1 TEACHING LEARNING PROCESS

Education is essentially a purposeful activity. The real value of the educational programme lies in the realization of its aims and objectives, desirable and attainable, as they should be. At the first level, there are the broad aims of education, selected and defined on the basis of national objectives, philosophical considerations and the socio-political and economic conditions of the country or community. As means for achieving these broad aims of education, the total school programme is developed. This, therefore, is determined by the above aims and may consist of studies in a number of areas or subjects and different kinds of activities like the co-curricular programme. Each course of study or subject will have its own broad objectives. If education is essentially purposeful, teaching, which constitutes the major part of it, should also be purposeful and goal oriented. Just as an architect or a painter has a vision of the total product and sets objectives relating to the whole product and immediate specific objectives and immediate and specific objectives which ultimately will help in realizing broader objectives and aims.

The first principle in teaching therefore is that it should be objective-based. The instructional objectives of each subject are defined in a broad way in terms of the broad outcomes of learning in that area and they are further analysed into specific learning processes and outcomes. If some generalization is possible, and convenient for the sake of brevity it may be said that in all the content subjects, the students acquire knowledge (information), ability to apply the knowledge and understanding to new situations. It must also help to develop skills in manipulative performances relating to the subject interests, attitudes, appreciations and values. The broad objectives can, therefore, be stated in terms of these broad outcomes for teaching as well as testing. But, to be more specific, each will have to be analysed into a variety of learning outcomes. For example, the learning outcomes in respect of understanding may be a seeing relationship, discriminating, comparing and contrasting, translating from one form to another, detecting errors, giving illustrations and so on. One who is able to apply knowledge and understandings to new situations will give reasons, establish new relationships, form hypothesis, studies procedures, infer, predict and do such other things in respect of new situations. Such learning outcome can be identified for the other objectives as well. An appropriate learning experience planned in the context of the content will lead to total learning outcome, which has the content dimension as well as the learning dimension. Of late there has been a change in the perspectives of a learner and the learning process. The different cognitive and educational theories have emphasized the need for a learner centric approach in school education. It was emphasized that learners have their own ways of viewing world and they are capable of constructing knowledge through observations, and other exploring activities

Traditional school teaching tended to emphasize memorization and mastery of a fixed body of knowledge in each isolated subject. This approach did not encourage students to develop deep understanding and higher order thinking abilities. Broadly speaking, intellectual quality in teaching and assessment refers to the extent to which students are deliberately engaged in learning activities that require, encourage different types of skills and cognitive processes thereby leading to construction of knowledge. In the process of construction of knowledge, learners are required to use to manipulate knowledge by using cognitive processes such as comparing, classifying, abstracting, inductive and deductive reasoning, constructing support, analyzing errors and perspectives, and interpreting. Learning improves when learners are engaged in higher order thinking.

In the case of languages, in general, the basic objective is often said to be the development of the basic skills of listening, speaking, reading and writing. These when defined in terms of the broad outcomes in the pupils would mean comprehension and expression relating to both the oral and written forms, in addition to interest, attitudes, values, etc. Specific learning outcomes can be identified for each of these objectives also.

When learners are engaged in learning, they use a range of different thinking processes, some of which such as 'higher order thinking' require much more mental effort than others. The range of cognitive processes that can be used are often described by hierarchical structures called taxonomies. One of the most well known is Bloom's taxonomy (bloom,1956) who developed a classification of intellectual objectives and skills essential to learning which are divided into three domains: Affective, Psychomotor, and Cognitive. Each domain was classified into a category of objectives in a hierarchical manner(Bloom, 1956; Krathwohl, Bloom& Masia, 1964). For over 50 years, these objectives have been used to structure lessons, guide learning, and assess students' performance. Since the publication of the Original taxonomy in 1956, psychological and educational research has witnessed the introduction of several theories and approaches to learning which make students more knowledgeable of and responsible for their own learning, cognition and thinking (eg., Constructivism, Metacognition, Self-regulated learning).

All these theories and approaches see learning as "a proactive activity, requiring self initiated motivational and behavioral processes as well as metacognitive ones". These current educational initiatives and modern theories of learning have prompted the revision of the taxonomy of objectives. A group of specialists led by Lorin Anderson revised the original taxonomy (Anderson et al., 2001) which is referred to as *Revised Taxonomy*.

According to the revised taxonomy, there is a need to address certain questions which are fundamental to teaching. They are:

- What important things should students learn?
- How can instruction be planned and delivered so that students achieve high levels of learning?
- What assessment instruments and procedures will provide accurate information about how well students are learning?
- How can teachers ensure that outcomes, instruction and assessment are aligned with one another?

The revised taxonomy has two dimensions: the *Knowledge Dimension* and the *Cognitive Process Dimension*. In the knowledge dimension, there are four distinct types of knowledge (factual, conceptual, procedural and metacognitive) which are subdivided.

The categories of the cognitive process dimension are intended to provide a comprehensive set of classifications for those cognitive processes that are included in objectives. The cognitive Process Dimension is categorized as shown in the table (2). Each of the six major categories is associated with two or more specific cognitive processes, which are totally 19 are also described by verb forms (see table-2)

	Process categories	Cognitive Processes and examples
1.0	Remember:	Retrieving relevant knowledge from long-ter
		memory
	Recognizing	- Recognize the dates of important events in India
		history of independence
	Recalling	- Recall the names of the scientists in discovery
	Recaming	cell and its organelles
*	TT 1 4 3	Y
	Understand:	Determining the meaning of instruction
		messages, including oral and graph
		Communication
	Interpreting	- Paraphrase important speeches and documents
	Exemplifying	- Give examples of various types of plants
	Classifying	- Classify the observed plants into herbs, shrut
		and trees
	Summarizing	- Write a short summary of the events portraye
	5	on videotapes on cruelty to animals
	Inferring	- Infer grammatical principles from the given
		examples in English
	Comparing	- Compare historical events to contemporar
	Comparing	situations
	Franksin	
	Explaining	- Explain the causes of Second World war
	Apply:	Carrying out or using a procedure in a given
		situation
	Executing	- Divide one whole number by another whole
	-	number, both with multiple digits
	Implementing	- Determine in which situations Newton's second
	B	law can be appropriate
	Analyze:	Breaking material into constituent parts and
		detecting how the parts relate to one another
		and to an overall structure or purpose
	Differentiating	- Distinguish between relevant and irrelevant
		numbers in a mathematical word problem
	Organizing	- Structure evidence in a historical description into
	6	evidence for and against a particular historical
		explanation
	Attributing	A
1	Autouting	- Determine the point of view of the author of an
		essay in terms of his/her perspectives on
		environmental protection
]]	Evaluate :	Making judgement based on criteria and standards

Structure of the Cognitive Process Dimension and related cognitive Processes in the Revised Taxonomy

Critiquing	follow from a given data - Judge which of two methods is the best way to solve a given problem
Create :	Putting elements together to form a story, coherent
Generating	 whole or make an original product Generate hypotheses to account for an observed phenomenon
Planning	- Plan a model for constructing a solar heater
Producing	system in schools - Build habitats for certain species for certain purposes

The action verbs that could be used under these categories are as follows:

Taxonomy categories	Sample verbs for stating learning outcomes
Remember	Recognize, recall, name, match, label, select, reproduce, state
Understand	Classify, convert, describe, distinguish, explain, describe, extend, give examples, interpret, paraphrase, summarize, translate, estimate, relate
Apply	Apply, arrange, compute, construct, demonstrate, discover, modify, operate, predict, prepare, produce, solve, use, differentiate, infer
Analyze	Analyze, associate, determine, infer, differentiate, estimate, outline, separate, subdivide
Evaluate	Appraise, assess, compare, conclude, contrast, criticize, evaluate, judge, justify, support
Create	Combine, compile, compose, construct, create, design, develop, devise, formulate, modify, plan. Organize, propose, rearrange, reorganize, revise, rewrite

Illustrative Action Verbs for defining objectives using Revised taxonomy of objectives

As explained, the changing context of school education from teacher-centric to learnercentric demands a fresh look at the teaching-learning process that take place in the classroom. The constructivist approach to learning initiates the learner into several activities through which the learners construct meanings on their own, of course, sometimes with the support and guidance from the teacher. This approach involves the learners to be engaged in situations, contexts where their thinking is stimulated and further leads to exploring activities. One of the learning designs that has been adopted and imbibed into the present lesson formats is the 5-E cycle. The 5-E cycle learning design includes, engaging, exploring, explaining, expanding or extending and evaluating. The activities, the student and the teacher role under these 5 roles are synthesized into simple 4-step procedure in the lesson format which is as follows:

- i) Introduction (engaging students in situations, contexts, episodes)
- ii) Development (exploring, explaining_
- iii) Application (expanding or extending)
- iv) Review and assignment

A sample lesson plan in biology is prepared based on this which you may find in the appendix.

3.1 ORGANIZING LEARNING EXPERIENCES

Learning experiences are the activities undertaken by the students planned deliberately by the teacher with a particular purpose to bring about desirable changes in their behaviour.

3.1.1 Criteria for Selecting Good Learning Experiences

- 1. Learning experience should be based on the learning objectives.
- 2. Learning experiences should be commensurate with syllabus prescribed.
- 3. Learning experience should be meaningful, relevant and capable of arousing interest.
- 4. Learning experience should be contextualized
- 5. The main criterion for selecting good learning experience is that it provokes a good deal of interest in the pupil so as to ensure his full participation in the learning experience.
- 6. While making selection for a good learning experience, attention should be paid to the age group of the students. For example, the concept of a flower will be simple and free from many technical terms for the lower classes while it will be more comprehensive and elaborate for students of the higher classes.
- 7. Learning experiences so designed should reflect the socio-cultural milieus.

3.1.2 How to Plan Learning Experiences?

When a teacher wants students to conceptualize certain meanings or construct knowledge on his own, he selects desirable situations, which helps to contribute to the knowledge construction. The degree of his success will depend on how best the teacher has planned the experiences. So it is very essential that the teacher knows how to plan learning experiences.

The following points should always be borne in mind while providing the learningexperiences.

Learning experiences should:

- 1. be arranged from simple to complex.
- 2. be organized in such a way that meaningful learning takes place.
- 3. be connected to the life experiences of students
- 4. be provided time and again to strengthen learning.
- 5. Seek pupil's participation to the maximum possible extent.
- 6. be linked with the goals desired
- 7. be arranged according to the facilities available in a particular school.
- 8. go beyond the textbook activities and extend to real life situations and field observations
- 9. learning experiences may be organized either for individual learners or by forming groups. This depends upon the concepts to be learnt, and the issues and problems to be investigated upon.

For developing the ability to apply scientific principles in daily life, teacher can provide the following activities:

- 1. Providing situations involving analysis.
- 2. Allowing students to draw conclusions themselves from the given data.
- 3. Arranging discussions, and encouraging student's participation.
- 4. Providing opportunities for improving apparatus.
- 5. Undertaking nature rambles.
- 6. Giving illustrations of scientific principles from daily life etc.
- 7. Providing for field surveys and observations

A single activity can develop many cognitive processes.

For instance dissection of frog will enable the students to develop the following learning processes, skills and outcomes.

- i) Knowledge about the systems exposed.
- ii) Ability to use instruments for a particular purpose.
- iii) Control of muscles.
- iv) Power of keen observation etc.

3.1.3 Material for Planning Learning Experiences

In addition to the formal teaching situations there are also many other materials, which can be profitably employed for designing the learning experiences. Following are some of these:

- 1. Actual demonstrations by the teacher himself can serve as a useful source for providing experiences in developing the power of minute observation.
- 2. Laboratory experiments provide enough scope for training in scientific method of thinking developing right type of altitudes and acquiring certain skills.
- 3. Teaching aids like films, filmstrips, radio, epidiascope, charts, models etc. are a good storehouse for the teacher to find out the relevant experiences, which increase power of observation and understanding and develop interest.
- 4. Field trips excursions and nature trails etc. provide experiences for developing the abilities to collect, observe, classify and preserve the material in addition to acquiring knowledge.
- 5. Making of charts, models and improvising apparatus develop constructional, drawing and manipulative skills.
- 6. Discussions, debates, symposia on curricular topics and contributing articles to through school magazine provide training in expression, collection and arrangement of relevant data.
- 7. Scientific literature for example is a useful source for improving abilities like locating information, reading, selecting relevant data, organization, interpretation, evaluation and independent thinking.
- 8. Hobbies can help in developing interest and ability to apply knowledge in every day life. They also reinforce the abilities already developed by classroom activities.
- 9. Exhibitions, fairs, museums etc., also provide varied types of learning experiences.

But the achievement of desired goals does not depend only on planning the learningexperiences. It is directly related to the teacher pupil participation as well and the success will depend on how best both the pupil and the teacher take part in the teaching learning process.

3.1.4 Teacher-Pupil Participation

In order to make the instructional process effective, the teacher and the taught have to participate actively in the learning situations. The teacher is the guide who plans the activity in a comprehensive and systematic way so that the same can be carried properly. He has to find ways and means to achieve the objectives. He discusses the activity with his pupils for proper realization of the desired goal.

Active participation of the pupil is very important, firstly because it is he who has to learn and secondly because this will help him give vent to his needs, motives, emotions etc. He interacts with the learning situation and that results in learning. Active participation of the pupil under the direction of the teacher leads to effective learning.

3.3 USING LEARNING AIDS

Learning is a process in which the learners construct meanings and develop cognitive processes that lead to higher order thinking abilities. Learning is active It is forming, strengthening the connections between definite stimuli and specific responses. The process of learning has been described as purposeful active and goal directed. Learning occurs when the individual reacts to the situation in which he finds himself. We learn by thinking, feeling, doing and seeing.

Teaching is an art. According to Edgar Dale, "To teach is to transform by informing, to develop a zest for life-long learning, to help pupils become mature, independent learners, architects of an exciting, challenging future...... a kind of communication, a meeting and merging minds."

Teaching is rooted in learning. Learning is rooted in sensation and, therefore, effective teaching must utilize the sensory experiences (senses are the gateways of knowledge) which audio-visual materials provide. Good learning aids enable us to make ides and concepts clear. They arise learning from verbalism to true understanding.

Audio-visual aids cannot substitute for real teaching. They cannot teach by themselves. They need skilful teaching to make them effective. The teacher must prepare the class for the audio-visual activity, guide the class through it and follow up after its completion. In short A.V aid instructional device is a device, which assists an instructor to transmit to a learner-facts, skills, attitudes, knowledge, understanding and appreciation.

Before deciding to use a specific A.V.material the teacher must determine whether it will contribute to the expected learning processes and learning outcomes.

Keep in mind the following criteria while using A.V material as an instructional tool:

- a) Does it give a true picture of the ideas that are intended?
- b) Does it contribute to the meaningful content of the topic under study?
- c) It is appropriate for the age, intelligence and experience of learners?

- d) Is there a teacher's guide available to provide help in effective use of the material?
- e) Does it make the students better thinkers, critical-minded?

A.V. materials when properly used in the teaching situation can accomplish the following:

They supply a concrete basis for conceptual thinking and hence reduce meaningless word responses of students. They have a high degree of interest for students. They make learning more permanent. They offer a reality of experience which stimulates self activity on the part of pupils. They develop a continuity of thought; this is especially true of motion pictures. They provide experiences not easily obtained through other materials and contribute to the efficiency, depth and variety of learning.

Of the various audio-visual aids from which you can choose, depending upon your needs and the facilities available in your school are the following:

- 1. Charts
- 2. Diagrams
- 3. Pictures and Photographs
- 4. Maps and Globes
- 5. Posters
- 6. Models
- 7. Objects
- 8. The Motion picture
- 9. The Financial Board
- 10. The Bulletin Board
- 11. Radio broadcasting
- 12. Tape records
- 13. Television
- 14. Computer

Every student teacher should understand that the primary purpose of using audiovisual materials in teaching is to improve the communication of ideas. To improve communication is to make learning more effective. Audio-visual materials should therefore be used only when they contribute significantly to the learning experience of children and not indiscriminately. They are therefore required to bestow sufficient thought and attention towards the preparation of relevant and useful audio-visual aids for teaching in the class. In to order to prove that you really used these aids for teaching in the class, the supervisor must evaluate these aids. However, there is no stipulation as to number of aids to be made and used.

3.4 EVALUATING LEARNING PROCESSES AND LEARNING OUTCOMES

The concept of evaluation involves controlling the activities such as testing and teaching with reference to the objectives. Good assessment is an integral part of any good instructional programme. The evaluation concept emphasizes that any professions activity cannot be carried out effectively without a clear concept of the purposes to be served by that activity. The success of the professional activity has to be assessed in terms of the objectives.

Education can be looked upon as process by which desirable changes are to be brought about in pupils, in respect of particular subjects studied. The class-teacher should be clear about the purposes of each subjects he teaches and the changes that should be brought about in terms of remembering, understanding, applying, skill and attitudes. The first question of a professional teacher, therefore, is understanding "What Do I Want To Achieve In Pupils?" Unless the teacher is clear about what he wants to achieve in pupils, his teaching techniques and his testing procedures are meaningless.

The assessment is linked with the objectives and the teaching-learning process. we cannot assess the learning outcomes of students in the absence of well specified objectives which takes into consideration, both learning processes as well as the learning outcomes. Therefore it is necessary that we should clearly state each of the objectives we want to develop.

After doing this analysis with references to each of the objectives such as *remembering, understanding Applying, analyzing ,evaluating and creating and Skills* the teacher should now proceed to write test items with reference to each of the learning objectives specified. This will help him to judge whether the test item is properly framed so as to enable him to find out whether a particular learning outcome has developed or not. Some test items may be of the essay type, some of the new type or objective type, some of the short answer type. It is better to construct the items or questions which are contextual and situational rather than a conventional and mechanical ways of asking questions which requires and encourages rote memorization. Constructing test items which are contextual will make students to think, analyse, interpret, coming to generalizations through their responses. Rather than concentrating more on testing the lower order thinking abilities such as mere recall and recognizing the facts, it is advisable to construct items as mentioned above where the students will be able to exercise their higher mental abilities. Using revised taxonomy of objectives, a blue print or the table of specifications can be developed before going into the construction of test items while planning for a unit test.

The learning processes of the learners could be assessed by observation, certain indicators which can be evolved with in the task assigned. If a group work is given, the assessment may be carried out for the task carried out by the group members which is evidential and for their group presentations. Teacher may do on –spot evaluation by using certain criteria/indicators.

3.5 PLANNING FOR EFFECTIVE TEACHING

3.5.1. Need for Planning

Educators have always agreed on the need for an intelligent planning of every lesson. To plan is to act with a purpose. A plan is a blue print which helps in the efficient, economical and smooth conduct of any activity. If teaching is to be effective in terms of learning by students, it is necessary to ensure this through careful advance planning which would involve visualizing the entire teaching learning situation as it is likely to develop in the classroom. Every teacher has before him some very specific purposes in teaching a units or a topic. He is anxious to achieve these purposes during the course of the lesson. He needs to think about the best possible manner in which he can realize these purposes with the maximum of efficiency and the minimum of waste of available resources. Whereas this applies to all teachers, the need for such advance planning is all the greater for the beginning teachers and trainees in teacher training institutions. The entire programme in a teacher college is geared to the development of a numbers of teacher competencies in the trainees. Practice teaching is one element of this programme; its emphasis is on developing teaching ability through supervised experiences. It will be readily agreed that the ability to plan a lesson is of great value and needs to be specifically developed in student teachers so that they may do a good job in the classroom.

3.5.2 Unit Planning And Lesson Planning

The Planning of learning activities and experiences could be done in two stages, first in terms of 'Units ' and then ' lessons'

A 'Unit' is an organization of various activities, experiences, types of learning around a central theme, problem or purpose. It can also be looked upon as a meaningful whole of content which is build around a central concept. Examples of units are; The universe around, Marine life, Plant life. The food we take, Transmission of Heat, space science, steam and its Power(Science), Means of Transport, Meant of communication, The way we are governed (social studies), Factorization, Percentages and their Uses, Square Root (mathematics). Units can be classified on the basis of the approach followed. A subject matter unit has, as its basis of organization and primary end result, the subject matter itself. An experience unit, on the other hand , has its starting basis the learners experience. The main emphasis is also on such experience and subject matter is used as a means to the understanding of experiences as related to the unit. A problem units, in a similar way, focuses on the solution of a felt problem. (How do we elect our representatives? How do we get our drinking water? How is soap manufactured? How are tomatoes grown? How do Airplanes fly? Etc.,) Some units can be designed using more than one approach.

Unit teaching attempts to build a comprehensive study plan focused on learning experiences based on a single theme. It stresses boards areas of knowledge, skills and attitudes rather than a mere presentation or teaching of restricted skills. It is a more effective way of organizing material so that the student will better understanding what he is being taught. Planning in terms of units enables pupils to see the different lessons as an integral part of the same theme and not as an integral part of the same theme and not as disjointed bits of information.

A unit plan should show the objectives, prerequisite learning, analysis of content in terms of concepts, principles, the kind of learning experiences and activities to be provided and a scheme of continuous evaluation. A suggested design for the unit plan is given below.

UNIT PLAN

Subject:

Total Time:

Title of the Unit : Name of the Teacher : School :

SCHOOL .

Class /Standard : Prerequisite learning/experiences:

0.000

Major objectives: (Concepts, facts, principles, skills, interests, etc.,)

Sub units	Content analysis	Key questions	Learning objectives	Learning strategies/ activities/experiences	Assessment techniques and devices

Before you start teaching, the first task before you, therefore, it to choose a suitable unit, and prepare the plan for the unit as a whole. (In the case of teaching of English or Languages each prose lesson or poem could be considered as a unit. Or you could have units like: How to write good letters? The use of pronouns, Adverbs etc.,) You may then prepare detailed plans for sub-units or lessons to be taught in one classroom period. Prepare at least one unit plan in each subject of specialization.

3.5.3 Elements of a Lesson Plan

There is no one way of preparing a lesson plan. One could think of a variety of formats to suit different situations. It is not very important that a particular format for drawing up a lesson plan should be ritualistically followed. What is important is to recognise that a lesson plan has a distinct purpose in relation to good teaching that is to follow it. A plan must help to clarity to the teacher the specific learning outcomes, in pupils, in relation to the topic and indicate how these are proposed to be realized and evaluated.

While there need to be no rigidity about the form or pattern of a lesson plan, it may be suggested that the following essential elements should find a places in every good lesson plan:

- 1. Statement of learning objectives in relation to the topic. It is desirable to state the objectives in terms of the learning processes and the learning outcomes that are assessable so that the evidences for the changes might also be sought in student's learning
- 2. developing key questions that lead to connecting the new knowledge to the experiences or knowledge that the learner already has undergone in his/her daily life situations
- 3. Selection and sequential organization of learning activities/episodes in terms of the objectives.
- 4. Selection of appropriate devices to evaluate the learning outcomes at different stages.

3.5.4 Structure of a Lesson Plan

A Comprehensive plan might indicate at the top the essential identification data like the name of the teacher, school, standard, subject, topic, time etc., The learning objectives could then be selected and clearly stated. What are often stated as general aims could be taken for granted and so need not be repeated lesson after lesson. For example, developing scientific attitude, developing understanding of the physical and social environment, developing comprehension and expression, etc., could be assumed and need not be specifically stated unless some important aspect of this is specifically emphasized in the lesson. The learning objectives in content subjects could conveniently be given in terms of:

- 1. Acquisition of factual knowledge (of facts, processes, etc)
- 2. Developing understanding (of concepts, principles, relationships etc.,)
- 3. Developing ability to apply (knowledge or understandings to new situations)
- 4. Developing analytical skills
- 5. Developing certain skills (if appropriate to the topic)
- 6. Developing interests, attitudes, appreciations, etc. relating to the topic/unit.

In the case of language subjects, particularly prose lessons based on the detailed texts, the instructional objectives could be conveniently defined in terms of the following:

- 1. Understanding and using the relevant structural items.
- 2. Understanding and using the relevant vocabulary items(essential or active vocabulary)
- 3. Acquiring knowledge of content words (recognizing words)
- 4. Understanding special usages, idiomatic expressions, grammatical relationships etc.,
- 5. Further development of skills on comprehensions and expression in both oral and written forms.

The above general objectives cannot be assessed unless and until they are specified in terms of assessable learning processes and learning outcomes. The learning processes have been given emphasis in the constructivist context of teaching, as students will be engaged in the situations created, where many cognitive skills will be employed by them in the cooperative learning mode or individually.

If the basic principle that all teaching and testing have to be objective based and learner centered is to be followed, with due emphasis on student role in the process of learning as well as in the product (to be formally tested). The plan should clearly show such learning processes and learning outcomes. These then should be the starting point for indicating the corresponding contents, learning activities, evaluation devices and items etc. Such things could be given in a structured way. (There is no rigidity about the number or different order of columns, but a good comprehensives plan adopting this approach should essentially indicate the important expected learning/ learning outcomes, content, learning activities and an evaluation procedure). The content need not be spelt out in detail nor should every question or small detail be given under learning activities. As far as possible the learning activities could be given from the pupils point of view indicating the teachers role by implication. The aids , materials, etc., to be used could also be indicated under learning activities. If necessary , the black boards work could be indicated by underlining or other means. Where the ' process out come' is indicated no separate item or device need be indicated under evaluation, but techniques like observation of skills in the process of

development could be indicated. Questions for testing ' product outcomes' could also be given. All these could then be given in a structured way in about three or four columns with one to one horizontal relationship. Such a comprehensives plan may take a few pages.

:

3.5.5 Lesson Plan Format

- Name of the Student Teacher 1. .
- 2. Year
- Name of the Co-operating School 3.
- 4. Date
- 5. Duration
- Standard 6.
- Subject 7.
- Unit/topic of the lesson 8.

Lesson:

Learning Objectives:

Major concepts:

Key questions:

Learning resources:

Prior /previous knowledge: Concept map of the unit/lesson

Concepts & phases of the lesson	Learners active learning	Assessment and BB work
Introduction Engaging episode/event		х
Development		

Bridging					
Exploring					
		•	,		
T-1.1.1					
Explaining					
Application					
Review	2				
Assignment					

Specimen Lesson Plans in Different Subjects (The specimen lesson plans are provided in Appendices)

3.5.6. Preparing a Unit test UNIT TEST

Title of the Unit : Nutrition in animals

Learning Objectives

- Explains the meaning of digestion
 - o Draws and labels the different parts of the digestive system
 - o Identifies the number of teeth in the mouth
 - Relates the type of teeth with their functions
 - o Identifies the causes for tooth decay
 - Evolves hygienic measures for prevention of tooth decay
 - Identifies different regions of the tongue help in tasting different types of food.
 - Infers from the observations that saliva breaks down the starch into sugar.
 - Reasons out the causes for indigestion
 - Identifies the act of different digestive juices secreted by different organs and glands on carbohydrates, fats and proteins
 - States the meaning of ingestion, digestion, absorption, assimilation and egestion
 - Explains the role of villi in absorption of digested food.
 - Explains the role of large intestine in elimination of undigested food.
 - o Reasons out as to why ORS is administered to patients suffering from dehydration
 - o Describes the process of digestion in ruminants
 - Reasons out as to why cellulose present in the grass is digested only by ruminants an not by other animals
 - Identifies the part that helps in taking food in case of amoeba

I. Weightage to Different knowledge and cognitive process dimensions (No. of items and its percentage)

Knowledge						
dimension	Remember	Understand	Apply	Analyse	Total cognitive proces dimension	
Factual	8				8	
Conceptual		12	4		16	
Procedural			2		2	
Metacognitive				2	2	
Total	8	12	6	2	28	

Knowledge/content	Cognitive Process dimension						
dimension	Remember	Under- stand	Apply	Analyse	Skill	Total content dimension	
Different modes of nutrition in animals	- ·	1(1) (%) 1(3) (%)				2(4) (%)	
Digestive system in human beings	4(1/2) (%) 1(1)	1(1)			1(3)	7(7)	
Process of digestion	1(1/2) 5(1)	3(1) 2(2)	4(3)	2(3)		17(27.5)	
Total cognitive Process dimension	11(8.5)	8(10)	4(12)	2(6)	1(3)	25(39.5)	

Weightage to the content and the cognitive process dimensions (in percentages)

III. Weightage to Different Forms of Questions

Sl.No	Form	Number of questions	Marks	% of marks	Approximate time
1 -	Short essay				
2	Very short answer	6	7		
3	Short Answer	8	23		
4	Objective type	11	8		
	Total	25	38		

IV. Blue Print/Table of specifications

Subject: science

Unit / Paper: Nutrition in animals

Class:	VII
Maximum	Marks:
Duration:	60 mts

Knowledge/content	Cognitive Process dimension							
dimension	Remember	Understand	Apply	Analyse	Skill	Total		
	VSA SA OB	VSA SA OB	VSA SA OB	VSA SA OB	VSA SA OB			
Different modes of nutrition in animals		1(1) 1(3)				2(4)		
Digestive system in human beings	4(0.5)	1(1)				5(3)		
Process of digestion	1(1) 2(0.5)	4(1) 4(1)	4(3)	1(2) 1(3)	1(3)	18(32)		
Total cognitive Process dimension	7(4)	11(13)	4(16)	2(5)	1(3)	25(40)		

Q. No.	Key/Value Points/	Marks allotted for	Total
 	Outline	each value point	Marks
1.			
2.			
3.			

V SCORING KEY AND MARKING SCHEME

VI. QUESTIONWISE ANALYSIS

I.	Objectives	Specifications	Unit/su b-units	Form of Questions	Marks	Estimated Time	Difficulty level
0.							

VII. Weightage to Difficulty Level

Sl.No.	Difficulty Level	Marks	% of Marks
1.	Easy		
2.	Average Difficulty		
3.	Difficult		
	Total		

Unit Test

Section A

Total Marks:40

What is the meaning of digestion?	(1)
The juice produced in the stomach contains an acid as well as an enzyme.	Name them.
What do the acid and the enzyme do in digesting the food?	(2)
What happens to the undigested food that remains in the large intestine?	(1)
Rearrange the process of digestion in the following figure.	
Ingestion \rightarrow Assimilation \rightarrow Absorption \rightarrow Digestion \rightarrow Egestion	(1)
Mark the regions of tongue in the given figure for sweet and bitter taste	(1)
	The juice produced in the stomach contains an acid as well as an enzyme. What do the acid and the enzyme do in digesting the food? What happens to the undigested food that remains in the large intestine? Rearrange the process of digestion in the following figure. Ingestion \rightarrow Assimilation \rightarrow Absorption \rightarrow Digestion \rightarrow Egestion

Figure

6. Find out the organ used for nutrition and label it in the following figure of an amoeba.(1)

Figure

Section B

- Ajay who is a fifth standard student wants to know how food moves in the opposite direction during vomiting. Explain to him with a figure. (3)
- Make a table showing the type of teeth and the number of teeth the lower jaw and the upper jaw with their functions.
 (3)
- 3. Ram who is 11 years old visits a dentist as he was suffering from severe tooth ache. The Dentist examines him and says that he has cavities in 3 to 4 teeth and few others are decayed. What might have been the causes for Ram's teeth condition? What would have been the advice of the Dentist to Ram to prevent his teeth from further decay? (3)
- 4. The food never comes back into the mouth of a person who is consuming food standing upside down. What is the reason? (2)
- 5. Leena is suffering from diarrhea. She finds herself very weak to move around even in the house.
 - i) Why was she feeling so weak?
 - ii) You remembered what your family doctor had advised you when you were in the similar condition as Leena is now. Your doctor had advised you to drink ORS. What is ORS? As a friend of Leena, how will you prepare ORS and give it to her? (3)
- 6. Below is given the incomplete diagram of human digestive system. Complete the diagram and label the parts. (3)

Incomplete figure of the Human digestive system showing only some parts without labels.

7. Here is an experiment where a spoonful of atta or rice flour is taken and six spoons of water is added to make a paste. The paste is divided into two portions and each portions is put into a test tube. Ten drops of water is added to the mixture in tube 1

and an equal amount of saliva is added in the test tube 2. The test tubes are kept in stand for few minutes. Later a few drops of iodine is added to both.

- i) What would be the colour in both the test tubes?
- ii) Why did the colour change? Give your reason.
- 8. What is special about a ruminant's stomach? How does it help the animal digest the grass eaten? (3)

Section C

$(\frac{1}{2} \text{ mark each})$

(3)

Fill in the blanks:

- 1. Chemical substances produced in the body of an organism to help in the process of digestion are called ------
- 2. The tube starting from the mouth and ending in the anus through which food passes is called the -----
- 3. the fingerlike folds in the wall of the small intestine are called------
- 4. Glucose breaks down with the help of ------ into carbondioxide and water.
- 5. bile juice is stored in a sac called the ------
- 6. The largest gland in the body is ------

Instructions : Each item that is given below has four alternatives. Choose the right answer and encircle it.

- 1. The walls of the large intestine absorb
 - a. water
 - b. digested food
 - c. undigested matter
 - d. Cellulose.

2. Assimilation is a process by which

- a. food is digested
- b. digested food is taken by the blood
- c. digested food is utilized by the body
- d. food is broken into simple molecules
- 3. Cellulose forms a large part of the undigested matter we egest. It is
 - a. undigested protein
 - b. the substance the cell wall of plants are made up of
 - c. undigested starch
 - d. Undigested sugar.
- 4. The first set of milk teeth is
 - a) 20 in number
 - b) 25 in number
 - c) 15 in number
 - d) 28 in number

Digestion of food gets completed in the -----

a) liver

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- b) stomach
- c) small intestine
- d) large intestine

3.5.7 OBSERVATION OF LESSONS

The first step towards becoming an effective teacher is to get acquainted with the techniques underlying good teaching. Therefore, every trainee, before commencing supervised teaching is required to observe a few lessons in each subject of specialization. These lessons may be of different types, given by his peers and teachers, preferably trained and experienced teachers.

The purpose of lesson observation is to develop a deeper understanding of the learning process and not to assess the observed lessons. The approach should be that of a learner who is interested in finding out what happens to pupils and how it happens, not that's of a supervisor or inspector. The business of the observer is to pass judgements but to observe and records the important learning and the techniques, methods experiences, activities etc., used for developing them. No comments need be given about the teachers personality and effectiveness of the teaching etc. In order to make observation effective., it is important to know very clearly what to observes, how to observe and how to record the observations. The questions in the section given below will indicate what one needs to observes in a lesson at different stages. They will also indicate by implication the various aspects or qualities of a good lesson.

3.5.7 What to Look for while observing Lessons

(a)Preparation/Motivation

• This is the first stage of a lesson. The following things should be noted:

- 1. How are the pupils motivated?
- 2. what is the situation or episode or an event created by the teacher to engage the learner?
- 3. How is the relevant previous knowledge tested and revised?
- 4. How the topic of the lesson is introduced in the form of question?

(b) Developments of the Lesson

This is the central and the most important part of the lesson:

- 1. What are the important objectives of the lesson in terms of terms, facts, principles, content, skills, interests etc., (In other words what are the main teaching points). How are they made clear to the pupils?
- 2. How does the teacher use scaffolding in class? Did it help in connecting the new knowledge to the knowledge already experienced?
- 3. What activities and procedures are adopted for realizing these objectives? How effective is the sequencing of learning experiences?
- 4. Did the teacher group the class? How did it help in group tasks and in group learning?

- 5. What are the various learning outcomes realized through them?
- 6. Are the strategies, methods and activities effective for realizing the objectives? Are there better procedures which will be more suitable to the situations?
- 7. How appropriate, clear and effective is the teacher's explanation?
- 8. Are the questions
 - (a) purposeful and thought provoking?
 - (b) simple, clear and well-worded?
 - (c) put to the whole class?
 - (d) well distributed?
 - (e) effective in securing good pupil participation?
- 9. Are the answer to the questions
 - (a) accepted wherever correct?
 - (b) corrected when wrong?
 - (c) explained further where necessary?
 - (d) appropriately and effectively improved and emphasised?
- 10. What teaching aids are used? Are the teaching aids ready-made or improvised? Are they used in the appropriates situations and effectively?
- 11. Is there any demonstration? Is it well structured, well explained and effective?
- 12. Is the pupil's interest sustained till the end and how? Were they enthusiastic and attentive?
- 13. Do the pupils have sufficient opportunity to ask questions, express their thoughts and show initiative?
- 14. Is there sufficient pupil activity and participation? Were they encouraged to observe, do and learn the things themselves to the extent possible?
- 15. Is the sequence of the teaching points logical? Was the development of each point psychological?
- 16. How are the pupils difficulties recognized? How were they tackled?
- 17. How are important points emphasized?
- 18. How is the lesson correlated with other lessons, subjects, activities and life situations wherever possible?
- 19. Did the learners participate in the class room discussion and other interactive processes?
- 20. What were the process skills that were developed during the lesson?
- 21. Did the teacher provide application situations in the class where the learners can apply their understanding of the concepts learnt?
- 22. Were the learners able to explain the concepts after their exploring activities? How did the teacher facilitate learning?
- 23. Did the teacher use worksheets and assessment devices to assess the learners? were they effective in the attainment of objectives?

(c) Review

1. How is recapitulation of the significant points covered in the lesson done?

2. How is the black board summary built up for the benefit of the students?

(d) Assignment and Evaluation

- 1. How is evaluation of pupil achievement done?(oral questions, written test, assignments, observation and other methods.)
- 2. What kind of remedial work is done?
- 3. Are there further assignments to be done outside the class? How purposeful, clear, appropriate and useful are they?

(e) General Aspects

Social climates in the class Room:

- 1. What is the nature of relationship in the class, between teacher and pupils and among pupils?
- 2. Does the teacher give pupils sufficient freedom? Is he able to maintain order and disciplines?
- 3. Is there an atmosphere of co-operative learning?

(g) The Teacher:

- 1. Is the teacher pleasant, resourceful, enthusiastic, sympathetic?
- 2. How does he hold the class together? Does he have any difficulty? How does he tackle difficult situations?
- 3. Is his speech clear and effective?

3.5.8 Tasks Relating to Lesson Observation

- 1. Observe some lessons given by your supervisor and other teachers of the school in your subjects of specialization.
- 2. Observe the required number of lessons given by your fellow trainees, in each of the subjects of your specialization.
- 3. Observe some lessons in other subject areas given to the pupils whom you are teaching. This would help in understanding to some extent the relationship between your subject and others, the impact of the total curriculum on the pupils, the performance of the same pupils in other subject areas, and through this, the pupils themselves.
- 4. Keeping in view the following aspects of a lesson observe how the pupils responded to its development, preparation, motivation, clarification of objectives for the pupils, teaching points (terms, facts, concepts, skills etc.) their development, procedures adopted, techniques used, provision for individual differences, correlation with other subjects and like situations, use of teaching aids teacher-pupil interaction, questioning, social climate of the class, recapitulation, assignments, evaluation of pupil achievement and further work on that basis, teacher's personality etc.,
- 5. Record your observations about each lesson, based on the above guidelines in the following form.

3.5.9 PROFORMA FOR RECORDING OBSERVATIONS

The student teacher should give a brief account under each category of observation.

Name of the School :	Name of the Student Teacher:						
Name of the Guide Teacher:	Class :						
Subject :	Lesson No. and Title :						
	Date						
Categories	Points for Observation						
1. Lesson Plan	: In proper form with the basic elements.						
2. Motivation	: Brief account plus its effectiveness and appropriateness.						
3. Teaching Learning Materials	: A list of the name of the items should be given, its appropriateness, visibility and clarity is to be mentioned.						
4. Handling of TLM	: When the teacher used it in the class, and whether it had the desired effect on the pupil.						
5. Black Board work and drawing	: Mentioned about the planning, clarity, visibility and legibility.						
6. Teaching Learning Activities	: Mention the activity and also as to whether it was a demo by the teacher or student, individual or group activity.						
7. Questioning	: Type of questions, adequacy, appropriateness. Key questions						
8. Pupil Participation	: Whether the class was interactive and whether it was more teacher centered or child centered.						
9.Reinforcement	: Mention as to what are the reinforces, repetition of points, underlining, stressing, appreciation of pupil reaction, etc.						

10. Evaluation

: Whether the questions were widely distributed and attention paid to slow learners.

11. Follow-up work

: A brief account of the assignment or simple projects given to the pupils.

Signature of the Student-Teacher

Signature of the Guide Teacher

Discuss with the teacher after observing the lesson about selection of objectives, concepts, procedures, etc., and try to understand why the teacher did things as he did. You may also discuss improvements or better procedures, but be very polite and tactful in all such discussions. Bear in mine this is a learning activity for you.

CHAPTER III

ORGANISING INTERNSHIP

Overview: Because of the importance of internship in the total programme of the teachertraining course, as well as the complexities of internship, organizing internship calls for great care and definess on the part of the organisors of internship. Organisation of internship involves the important stages-selection of internship centers, arranging pre-internship conference, conduct of internship and evaluation. Each stage is crucial for the success of internship. We now turn to examine these stages in some detail.

3.1 SELECTION OF INTERNSHIP CENTERS

The first step in organizing internship is to select the schools for the conduct of internship for our trainees. The selected schools will be called the co-operating schools and the heads and teachers of these schools are the co-operating heads and teachers respectively.

The criteria kept in mind for selection of the cooperating schools are-

- 1. The schools are in the states which comes under the sphere of educational activities of the colleges.
- 2. The media of instruction are those in which the student teachers will be required to teach.
- 3. The schools are well equipped in terms of staff and instructional needs of the internees.
- 4. The schools are willing to help the college in internship programme.
- 5. It would be desirable if the schools have a hostel attached to it so that our internees can be housed during the internship.

Schools that are suitable for the internship are approached to ascertain their willingness to help in internship. Having secured the willingness, the formalities of getting permission by the concerned educational authorities of the schools are attended to by the college. With such a permission the cooperating schools are selected and the same is intimated to the schools formally by the college.

3.2 PRE-INTERNSHIP PROGRAMME

3.2.1 For the Student-teachers:

In order to brief the student-teachers who are proceeding for internship about the internship arrangements and the expectations from them, a pre-internship meet is arranged. During this meet, the student teachers know their duties and responsibilities in their internship centers besides information regarding the centers. Their attention is drawn to the following points:

- teaching responsibilities-the quantum of teaching(in terms of periods) they are required to do.
- The material they get from the centers and those they need to carry with them(as kits, chemicals, books, etc.,)
 - The co-curricular and extra-curricular activities they can do at the centres.
- The research projects they can undertake.

- The community work they can undertake.
 - The rules and regulations of the co-operating schools and the dos and don's that they need to strictly observe.
 - The records to be maintained by them for evaluation purposes

Besides the last minute briefing, they are supplied with necessary forms as the teaching profile, the student-teacher diary, lesson observation format, list of records, to be maintained, etc.,

3.2.2 For the co operating heads, teachers and college Faculty:

Conference of cooperating Heads and Teachers:

A Pre-internship conference is conducted prior to the commencement of internship in which the cooperating heads and teachers participate to know about the college in general and about the way the college would like the internship to be in particular. It is an opportunity for the college faculty as well to meet the cooperating heads and teachers to know about the schools in turn. Thus it is mutually beneficial. Though lectures, lecture-cum-discussions and demonstsr4ation lessons, different aspects of internship are presented and analysed. Here opinions on different aspects of internship are discussed and clarified such a dissemination goes far in making the internship more meaningful.

The discussions are centre around:

- a) Meaning and scope of intemship
- b) Planning a lesson different aspects
- c) Objective based teaching
- d) Evaluation in teaching.
- e) Evaluation of lessons-use of the teaching profile.
- f) Activities during intemship besides teaching.
- g) Role of cooperating heads and teachers in internship.

The cooperating heads and teachers will enlighten the student-teachers and the faculty members of the college about their schools during the centrewise meetings.

3.3 The Duties And Responsibilities Of The Student-Teachers During Internship

The internship is organized to benefit the student teachers. The success of the internship is ensured to the extent the student teacher has to fulfill certain obligations during internship, in order that the internship experience is worthwhile and wholesome to him. The internee has a code to conduct for him during internship.

3.3.1 Knowing the School-Community:

The first and one of the most important of all the things that he should do is-knowing the headmaster and the teaching fraternity of the school, finding out the resources and facilities available in the school, knowing the rules and regulations of the school and to impose self-discipline to conform to these rules and regulations, knowing the students to whom he is going to teach and any other information related to the school.

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3.3.2 Lesson observations:

This aspect has already been discussed earlier. The student teacher has a lot to learn through observation of lessons of hi colleagues and senior teachers of the schools. He must be aware of what to look for in a lesson, know how to record his observations, be able to critically examine the lessons observed, reason why he finds certain learning experiences inappropriate and be able to suggest alternate and more appropriate learning activities. He has to do the observations in a phased manner as already discussed earlier and build the observation records for the perusal and evaluation by his supervisors.

3.3.3 Teaching Assignments:

Practice - Teaching is at the heart of internship. Here comes the climax when the student teacher should put to use all the theory about teaching and learning, his understanding of students' psychology etc., in a real classroom situation which would be invariably fare from the ideal classroom. Here he would find the extent to which the principles and methods of teaching he has learnt earlier during the training course are useful. He learns the art of teaching by learning how to choose, modify and improvise teaching techniques appropriate to the classroom situation. Obviously, it calls for an elaborate preparation on his part. The preparation is two fold (i) equipping him self with the correct content that he is going to teach which means knowing the content in all its depth, not just superficially. It is this knowledge that gives him the power so sustain in the class and the confidence to face his students. Knowledge of correct content is more imperative since teaching incorrect concepts and processes entails the process of unlearning on the part of the students, which process is very painful and undesirable (ii) Planning the lesson which effectively takes care of the art of presentation of the content. In other words its is planning to teach. This aspect of preparation can hardly be underestimated and has been discussed at length earlier.

It is very essential for the student teacher to plan the lessons well in advance and discuss the same with his college supervisors/Cooperating teachers and incorporate the outcomes of the discussions in the lesson as such.

After the lesson, the student teacher should know from his peers and the faculty members who will have observed his lessons, the strength and weakness in his lesson for future guidance.

3.3.4 Organisation and effective participation in school programmes-Co-curricular activities:

Need and Importance:

The scope of internship, as has already been explained, goes beyond acquiring the basic skills and competencies required for effective classroom teaching. It also includes training and experience in organizing various co-curricular activities, health and physical education programmes, games and sports. Co-curricular activities, provide opportunities for pursuit of established interests, development of new interests, and for the exercise of creative abilities developing team spirit and build morale, encourage moral and spiritual development, strengthen the mental and physical health of students, and thus contribute towards the all round growth.

General Guidelines:

In addition to classroom teaching, therefore, every student teacher is expected to participate and help in the effective organization and conduct of these activities in the school. Since the duration of internship is not long, he has to exercise great care and caution in deciding about the nature and extent of his involvement in these activities. The following guidelines may be kept in view:

- 1. Be as punctual as a regulars teacher and attend all functions and programmes in the school, from the morning assembly to games and other functions in the evening.
- 2. First observe and study each kind of activity, and then participate in it, with permission.
- 3. Participate in activities like morning assembly, various club activities, committee meetings, staff meetings, games, scouting, health services, campaigns undertaken by the school or clubs and other special programmes and student activities as leader, official etc., in different activities as and when appropriate.
- 4. Participate more frequently and intensively in a few selected activities suited to your interests, tastes and abilities.
 - 5. You may also help in the conduct of examinations, evaluation of scripts, clerical work, and any other kind of work expected of the teachers.
 - 6. Attend programmes like inter-school athletic meet, tournaments, youth festivals, exhibitions etc.
- 7. Conduct a few well-planned sessions in physical education.

Possible activities that can be organized during internship:

The scope of co-curricular activities as far as the student teachers involvement is concerned as two fold. On the one hand he has to organize a certain number of co-curricular activities on his own initiative and on the other, has to critically study the organization and conduct of some activities that are already functioning in the school, besides participating.

Of the various kinds of activities that one can think of organizing, the following may be mentioned:

i) Clubs and Associations-

Literary (debates, essay competitions, school bulletins, magazines) Cultural(music, folk-dance, drama, national and cultural events, fancy dress, mono-acting)

Clubs(Science, hobbies like photography, stamp collection etc.)

- ii) Excursions and visits to place of educational interest.
- iii) Exhibitions
- iv) School Assembly
- v) Student self-government
- vi) Quiz programmes
- vii) Nature rambles, hiking
- viii) Games, sports, athletics
 - ix) Parent Teacher Association.

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Principles of Organisation:

While organizing any new activity the following principles should be kept in view:

- 1) The justification for each activity must lie in the contribution it can make to the learning and development of the pupil.
- 2) The activity for each school should grow out of the needs of that school and be adapted to the local situation.
- 3) Participation in student activities should be equally available to all students with restrictions related only to competency and interest in the given activity.
- 4) Co-curricular activities should furnish a rich source of motivation for class instruction and also, wherever possible, reinforce classroom teaching.

Critical study of Co-curricular Activities of the School:

More important than starting or adding a new activity to the total school programme is the intensive, scientific study of the planning, organization, conduct and other aspects of existing activities. Such an exercise helps in developing insight into the real purpose and significance of the activities and also in giving you new ideas about bringing improvements in them. While studying any co-curricular activity keep the following points in view:

- 1. The objectives of the activity
- 2. Its educational significance
- 3. Its organization
- 4. Kinds of programmes undertaken
- 5. Extent of student participation
- 6. Frequency of meetings.
- 7. Provision for the evaluation of the activity
- 8. Weaknesses in the existing organization and suggestions for improvement.

3.3.5 Records to be maintained during internship:

Importance

In order to derive maximum benefits from your internship experiences, it is necessary to develop the skill of recording and reporting your experiences. To help you develop proficiency in this area, you will be expected to maintain a number of records covering the various aspects of your internship experiences.

Kinds of records and instructions:

Science internship experiences cover a wide range they include preparation for classteaching, actual teaching, evaluation of student learning, participation and organization of cocurricular activities and so on-proper classification of the same recording and reporting purposes becomes essential. There are, of course, many ways of doing this. Here we give a brief description of some of the important records and also certain broad instructions relating to their

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scope and maintenance. The exact number and kinds of records that you have to keep during the internship in a particulars year and precise instructions relating to the same will be communicated in the pre-internship sessions.

Mathematics Education Record

In this record the internee will be mainly concerned with the study of the curricular practices pertaining to mathematics as they are seen in the cooperating school. He should record both his observations of the practice and also his own contribution with respect to each of the following area

i. Maths Instruction

Its organisation, planning, supervision and guidance.(consider different kinds of organization planning at different levels, teacher-pupil planning, individual preparation, instructional materials, time-table, methods of teaching and so on)

ii. Learning aids

Availability, utsilization.

iii. Enrichment activities and remedial teaching programmes in maths.

Organisation, provision for independent study, group study, supervised study, nature of guidance given by the concerned maths teachers, additional activities-inter student activity in problem solving.

Maths club, its organization, nature of activities, effectiveness.

iv. Evaluation

Philosophy, organisation of evaluation, kinds of tools used, frequency of tests, follow-up, suggestions for improvement.

Science Education Record:

This record is not a collection of a lot of data about the school, for the sake of submitting a voluminous report, but a report of deep study of the various aspects of the school science programme with a view to gain proficiency n handling the problems to be faced by you on becoming a science teacher. You should therefore familiarize yourself with the total science programme of the school and be able to comment critically and offer suggestions for its improvements. The study may be undertaken under the following heads.

i. Science Curriculum

Courses of studies offered at different stages-time allocation: organization of the instructional programme ; subjectwise organization: co-operative planning: individual preparation: supervision and guidance; instructional materials used and prepared

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Instruction to teachers in the implementation of the new curriculum material-teachers' guides ors supplementary materials-orientation programme conducted to train teachers –nature of the inservice programmes-State or RCEM –effectiveness ors insufficiency-Methods of science teaching followed-lecture demonstration-discovery-inquiry.

ii. Science Laboratory

Facilities for science practical-separate room/demonstration table in classroom, gas, water, electrical facilities. Store and preparation rooms.

Equipment in different sections and for different purposes. Adequacy and utilization.

Dimensions of the laboratory furniture-maintenance funds available per year studenthow much by the school and how much by the Government.

iii. Science Evaluation:

System of tests and examinations-assignments given and corrected-frequency testsprogress cards and cumulative cards-remedial teaching-backward and gifted students. Whether results of tests are analysed statistically? Whether parents intimated? Whether final examination or school conducted? Policy for promotions. Test if they are conducted in theirs time table hours or after class hours. Your suggestions for improvement.

iv. Time table

Organisation of the science class hours-provision for double periods-time for independents study-group study-supervised study.

v. Science Library

Nature and Number of books, periodicals, encyclopaedias-magazines-adequacy. Finance-effective use and suggestions for improvement.

vi. Co-curricular Activities

To strengthen science teaching. Field trip educations tour-finances-planning-frequency. Science magazines-by students. Speeches by Scientists. Community resources available and utilized.

vii. Science club

Nature of activities. Frequency of meeting-finance-number of members-investigatory projects --suggestions for improvements.

School Organization Record

You may study any one of the following areas in detail and present a report of your findings. Your reports should cover the aspects mentioned under each area and should include review of theory, your observations in the school and critical evaluation and suggestions for follow-up for

the area studied. This study should not be a repetition of the aspects already reported in your Science/Mathematics Education Record

i. Curriculum

Principles of curriculum construction. The extent to which these principles have been followed Modern tendencies-courses of study offered at different stages with time for each correlation among different topics of the same branch subject-correlation of the subject with the other school subjects.

ii. Library

Location-provision-number and classification of books, journals etc.,-Organisation, service and utilization of the library- personnel and financial aspects.

iii. Time-table

Need and importance of the time-table –important principles of time-table framing-Relative importance-and difficulty of subjects-Element of fatigue-The extents to which these principles have been followed-types of time-table in use-difficulties experienced in time-table.

iv. Student self government

Need and importance-its orsganisation, working, pupil participation and responsibilityactivities planned and undertaken-usefulness of the activities teachers role as a guide in these activities.

v. Evaluation

Philosophy and principles-evaluation scheme in uses in the school systems of tests and examinations-kind of tools used-place of cumulative records as a tool for evaluation-promotion, results.

vi. Guidance

Places of guidance in the school-organisation of the guidance programme-activities undertaken-role of the school personnel in guidance-effectives uses of the opportunities provided by the pupils.

Lesson Observation Record

Phase II

Phase I

5 Lessons

5 Lessons (Min)

Phase III

10 Lessons

Total

20 Lessons (Min)

Details have already been discussed in ChaptII,2.8ord

Evaluation Record

This should include two units tests in the two subjects of specialization and the statistical analysis and interpretation of the scores.

The record should be complete with the blue print, weightages for different types of tests, content, objectives, tests items, scoring key and raw scores. Calculate the following from the frequency distribution-Mean, Median, Mode SD, correlation. Draw the frequency distribution, Histogram and ogive

Student-Teacher's Diary

(To be submitted immediately after returning from Internship Centre)

1. Name:

- 2. Centre:
- 3. School:
- 4. No. of lessons observed by
 - a) all the colleges supervisors
 - b) The cooperating Teachers

	Method I	Method II	Total
Total			

5. Total No. of lessons given by the student teacher:

6. Details of the lessons given:

SI.No.	Date	Period	Class	Subject/Topic	Evaluated	by	(with	the	Remarks	
					teacher's na	ame)				

7. Details of lessons observed by the students teacher:

SI. No	Date	Period	Class	Subject/Topic	Name of the teacher	Remarks
			-			

8. Total No. of lessons observed:

Subjects	Methods I	Methods II	Total
No.of Lessons			

9. Details of tests conducted by the student techer:

Sl.No	Date	Class	Period	Subject/Topic	Total Tests	

10. Co-curricular activities organized/participants:

Signature of the Student Teacher

3.4 ROLE OF COOPERATING SCHOOLS IN INTERNSHIP

The importance of Cooperating schools in the internship programmee is matchless and the role of the schools in the programme can hardly be over emphasised. It is the cooperating school which provides the plank for the activities of the student teacher to learn to teach. It is under the assuring shelter of the cooperating schools the student-teacher shapes himself as the teacher of tomorrow and it is likely that the cooperating schools get the services of the teachers thus prepared, in course of time. Thus there is a cycle which the cooperating schools ought to perceives-the student teachers belonging to a region get the field experience in the schools of the region so that the regions airs benefited by these trained teachers in course of time.

3.4.1 Role of Cooperating Heads:

The heads of schools can play a vital role in a constructive way:

- a) by giving the student teachers a sense of confidence and security.
- b) By providing whatever facilities that are available-physical facilities, consultancy and guidance from the school faculty.
- c) By creating a climate where even the slow, the shy and the withdrawing are encouraged to work.
- d) By appropriate counselling.

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- e) By helping them through sorting out problems involving human relations and
- f) Above all by looking upon the train as an younger brother or sister in the profession who needs guidance, consideration and grooming.

The student teacher needs to be:-

- i) introduced to the school community by letting him know about the different aspects of school and its organization.
- ii) Assigned to the cooperating teachers who are willing to help.
- iii) Provided access to library and laboratories.
- iv) Provided hostel facilities wherever they exist.
- v) Encouraged to do cocurricular and extracurricular activities under the guidance of senior teachers.
- vi) Cautioned against indiscrete acts.
- vii) Told to conform to the conventions and rules of the school.

3.4.2 Role of Co-operating Teachers:

The guidance of cooperating teachers of the schools to the student teachers is very essential for the growth of the internee as a teacher. It is under the valuable help of the cooperating teachers, the trainee shapes himself as a teacher. The trainee learns the art of teaching by observing his cooperating teachers' lessons, the way the teachers handle the situations, students and so on. It is under the instructions of the teachers, the trainee conducts and organizes activities for the benefit of students. In a number of ways, the cooperating teachers can help the trainees during internship. The cooperating teachers would assist the student teachers by -

- 1. Giving useful information relating to the classes handled by the student teachers.
- 2. Assigning as many lessons as possible.
- 3. Letting them know the extent and depth of the content which the student teachers are to teach.
- 4. Drawing their attention to books reference and materials for enrichment purposes.
- 5. Informing them of the schedule of classes the student teachers will handle, in advance.
- 6. Helping them in planning the lessons and discussing the plans before the lessons.
- 7. Allowing the student teachers to observe the lessons of the cooperating teachers.
- 8. Making the library and laboratories accessible to the student teachers.
- 9. Observing their lessons and evaluating them as well.
- 10. Conducting post lesson discussions for the benefit of the student teachers.
- 11. Giving them ideas, physical facilities and encouragement for conducting useful cocurricular and extra curricular activities.
- 12. Giving them appropriate advice on all matters concerning professional interests and attitudes.
- 13. Promptly dispatching the teaching profiles and other records if any to the institute authorities, after the internship.
- 14. Providing them facilities to conduct tests on whatever the student teachers have taught.

3.5 ROLE OF INTITUTE SUPERVISORS IN INTERNSHIP:

The institute supervisor who visits the internship center and stays there for a certain period has many duties to perform. He represents the institute and plays the role of a liason officer between the institute and the school. Besides assisting the student teachers in their activities including teaching he has to sort out any problem- be it of human relationship involving the student teachers and the school community or of health and security calling for immediate action, the institute supervisor has to exercise utmost caution, patience and wisdom and handle the delicate situations with tact and firmness. While there cannot be any prescription about the way different situations are to be handles, it would be enough to remind that the institute supervisor's resourcefulness, human qualities, comprehension of the situation warranting effective and immediate action. Of the duties and responsibilities of the institute supervisors that are many fold, we can enumerate some of the most important ones below:

1. Reporting to the center on the scheduled date and commencing the work punctually and go on till the scheduled last date of his stay at the center.

2. Visiting the cooperating schools and finding out problems of the student-trainees, the way . things are going on, their progress etc. both from the student trainees and their cooperating teachers and heads.

- 3. Conducting pre-lesson and post-lesson discussions for every observed lesson.
- 4. Insisting on lesson plans.
- 5. Keeping the student trainee informed about his strength and weakness as for his lessons.
- 6. Giving him useful cues and ideas for better classroom performance.
- 7. Conducting meeting of cooperating teachers and internees to discuss problems relating to the internship at the center.
- 8. Suggesting organization and conduct of useful activities at the school, looking to the available resources in the school.
- 9. Attending to any problem that may crop up immediately(like the health of the trainees, the personal security of trainees, discipline problems, problems with the school community etc.,) and keeping the concerned (viz, the college, school authorities, the guardians/parents of the internees) informed of the action taken at the college supervisor's level.
- 10. Evaluating the lessons promptly and properly(by enlisting the observations and rating in the profile) and other records(such as observations records) for submission to the college.
- 11. Maintaining the diary (of college supervisor)which should show the lessons observed with all details, for submission to the colleges.
- 12. Conducting inservice programmes by way of lectures, demonstrations etc. for the benefit of school teachers, if requested.

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Teacher's Reflective Journal

Name:	Name: School:		Class:	Subject:	Lesson
No:	Topic of the lesson:	Date:			

1. Lesson / task description - prior to teaching

- What I want them to learn?
 - In terms of subject matter
 - In terms of developing thinking abilities
- Materials that I wanted to use
- Learning strategies that I wanted to use
- Tasks that I wanted to give to the learners

2. Lesson / task description – after teaching

- Procedures (how I worked: time, organisation, etc.)
- Learners' response and outputs (how they responded to the task and what they actually did in the lesson)
- My role in facilitating learning process: (what I actually did and how)

3. Reflection on the actual outcome (what worked well?)

- Could I accomplish what I had planned and intended to do in the class?
- What were the aspects that I could not accomplish in the class?
- Why I could not accomplish?
- What is the most important thing I have learnt about student learning?
- What is the most important thing I have learnt about my teaching?
- What is the most important thing I have learnt about my students?
- How can I use my learning to improve student learning in my classes
- What could I do differently next time?
- Do I feel satisfied with my teaching of this lesson?
- What were the reactions of my supervisor/cooperating teacher and friends who observed my class?
- What are the feedback points that might help me to improve my teaching?
- What are the feedback points that may be difficult for me to imbibe in my teaching process? And why?

4. And from time to time...

- What do I need to do to improve the quality of what I do?
- What might I do instead of what I do now?
- What innovation could I introduce?
- List the outcomes you hope to achieve.

Signature of the supervisor

Signature of the student teacher

SUPERVISOR'S LESSON OBSERVATION DIARY

(To be submitted to the Principal immediately after returning from the Internship center)

1.	· Name of t	he college	Supervisor:		,		Period of Intern	ship
sup	pervisor							
2.	Centre:							
3.	Period of in	nternship su	pervision:		From	1	То	
4.	Details of t	he lessons	observed:					
	SI.No. D	ate	Name of the	teacher	Name of	Period	Lesson	Remarks
			trainee		the school		Subject/Topic	

- 5. Total number of lessons observed:
- 6. Details of meetings/inservice programmes conducted.

Sl.No	Date	Nature	Participants	Purpose	Remarks
1	2	3	4	5	6

- 7. Problems attended (Give a brief summary of the problem indicating its nature and the action taken by the college supervisor), if any.
- 8. Any other matter deserving special mention.

Date: Place:

Signature of the college Supervisor

3.6 EVALUATING THE STUDENT TEACHING

3. 6. 1. Need for Proper Evaluation of Student Teaching:

Even though the scope of internship is far beyond practicing classroom teaching, student teaching is one of the most important aspects of internship on which internship stresses. Aspects other than student teaching are difficult to evaluate however desirable such an evaluation might be. Often the evaluation of these aspects tend to be subjective. This makes it imperative to evaluate student teaching during internship as far objectively as possible. The

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responsibility of evaluating student teaching rests with those who guide the students during internship. It is essential to have a proper scheme of evaluation of student teaching. The advantages of the evaluation are many to behold. Effective guidance is based on the knowledge, on the part of the supervisor who guides the trainee, of the strong and weak points of the student teaching. While the knowledge of strong points boosts the trainee's confidence, the recognition of defects in the student teaching helps the supervisor to suggest remedies for setting the subsequent lessons right. Identification of the strength and weakness in student teaching is possible through proper evaluation of the same.

Effective evaluation of student teaching depends on the evaluation tool used for the purpose. Such a tool should (a) help the supervisor to identify the strength and weakness of student teaching in respect of various teaching skills and competencies (b) offer concrete guidelines to the supervisor about the trainee as for his teaching abilities (c) assess objectively his level as a teacher. Teaching is one of the most challenging tasks because of its complexity. Evaluation of this calls for construction of a evaluation tool that gives an objective appraisal about the teacher who is evaluated. Proper use of such an evaluation tool is another matter, which can hardly be over looked. The major aspects to be considered in evaluating a lesson are-

a) the preparation that has gone into by the student teacher before he teaches,

b) the performance of the student teacher in the classroom situation, and

c) the personality of the teachers itself.

The components under these aspects and criteria to be used for evaluation of the components are given in the RIEM student teaching profile.

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REGIONAL INSTITUTE OF EDUCATION, MYSORE – 570 006 STUDENT TEACHING PROFILE

Centre:	Subject	Student teacher:	Roll.no
		1	
Name of school:	Standard	Institute Supervisor:	Lesson Number
	7		
Period & Time: Topic of t	the lesson:	CooperatingTeacher:	Date

	Aspects & Criteria	Comments and Suggestions with reference				Rating scale						
		to the criteria shown under each aspect								E	xce	ellen
	LESSON PLAN											
.1	Content	*										
	 Charity, Adequacy, Accuracy, Relevance 		1	2	3	4	5	6	7	8	9	10
	 Appropriateness of Concept Mapping 											
.2	Learning Objectives											
	 Clarity, Adequacy, Accuracy, Relevance to content 		1	2	3	4	5	6	7	8	9	10
	 Appropriateness to Process Skills, Inclusion of Higher Order Abilities 											
.3	 Development of Lesson Effective engagement process, Approaches followed, Arousing interest 											
	 Relevance to content and objectives, Linking to previous knowledge 											
	 Relevance of key questions Learning experiences/activities, adequacy, appropriateness 			2	2	d	5	6	7	8	0	1.0
	 Learning experiences/activities, adequacy, appropriateness methods/techniques followed, hands on activities 			2	3	4)	0	/	ð	9	11
	 application to new situations, group/individual activities 											
	 selection of learning resources, Explanation and questioning 											
1.4	Assessment, Review and Assignments											_
	 Coverage of objectives, Variety of questions, Continuous evaluation 											
	 Assessing techniques (group assessment, worksheets, activities etc.,) 		1	2	3	4	5	6	7	8	9	1
	 Scope for reflection, Appropriateness of evaluation 											
	Appropriate review, Suitability of assignments		_	1								
2	TEACHING LEARNING PROCESS		-									
2.1	Lesson Introduction											
	 Appropriateness to arouse interest Method adopted to engage pupil (inquiry, situational, questioning, problem based, 											
	• Nictuod adopted to engage pupil (inquiry, situational, questioning, problem based, experimenting, activity, narration etc.)		1	2	2	/1	5	6	7	8	0	
	 LinLage to previous knowledge 			1	C	- 1	C	0	/	õ	9	l
	 Focus on key questions of the lesson 											

2	 Development of Lesson Use of appropriate skills and strategies Adequacy and appropriateness of learning activities Effective scaffolding Development of process skills Opportunities for pupil to explore and explain Assignment of group/individual tasks, Consolidation of pupil view points Effectiveness of concept attainment/generalizations Effective explanation and questioning 	•									
	 Handling of pupils' responses Pupil participation and engagement in activities Creativeness in extending what is learnt to new situations 		1 2	. 3	4	5	6	7	8	9	10
.3	 Content Competence Adequacy of content, Use of appropriate examples/non examples Establish linkage between and among different concepts Effective clarification of pupil misconceptions 		1	2 3	3 4	1 5	6	7	8	9	10
	 Effective integratedness of concepts across different subjects 										
2.4	Learning Resources Appropriate and effective use of charts/models/specimens Demonstration of experiments Facilitating pupils to use resources/materials/equipment Use of locally available/improvised resources		1	2	3	4 4	5 (5	78	9	10
	 Appropriate to develop higher order thinking 									_	
2.5	 Assessment, Review and Assignment Effective closure of the lesson Attainment of objectives, Continuity of assessment Effective assessment techniques (oral questions, worksheets, group assessment, self assessment etc.) Relevance and variety of questions (open ended, divergent and reflective) Assignments (relevance, variety, interesting and application oriented) 		I	2	3	4	5	6	7	8 9) 1(
3	CLASSROOM MANAGEMENT Effective grouping of pupils Communication and confidence Democratic atmosphere of the class Meeting the individual differences Mannetisms and gestures		1	2	3	4	5	6	7	8	9 1

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Name and signature of the Institute Supervisor/ Cooperating Teacher with date

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<u> Appendix – 1a</u>

Name of the Student Teacher:

Class: IX STD

Name of the Supervisor :

Subject:

Time: 40 mins

School:

POEM: THE DAFFODILS (William Wordsworth)

INSTRUCTIONAL OBJECTIVES:

To enable the students to:

- i) Articulate their thoughts on happiness
- ii) Listen and respond to a story narrated
- iii) Listen and identify key points during the first reading
- iv) Discuss the poem
- v) Identify rhyming words
- vi) Pick out similies and metaphors

PRE REQUISITE KNOWLEDGE:

1. Students are aware that all human beings, at some point in their lives, enjoy happy moments that last forever.

TEACHER ACTIVITY	RATIONALE/ JUSTIFICATION	STUDENT ACTIVITY	ANTICIPATED PROBLEM	TIME / MATERIAL
 INTRODUCTION: Teacher reads the following quote: "Happiness hides in life's small details. If you're not looking it becomes invisible". 	1.This will initiate students' response to the quote	1.Students will give points of view individualizing their concept of happiness	1.Students may hesitate to speak. Teacher encourages them to relate an incident that made/ makes them happy.	7 mins
-JOYCE BROTHERS 2. Teacher narrates a story of an old woman and her rose plants. The ways she 'brought up' her rose plants filled her with such happiness that she lived for a long time to come. Teacher asks questions to bring out the concept of happiness being independent of material possessions.	2.This allows the student to realize that happiness exists at different levels.	2.Students answer the questions and come to understand that happiness resides in the simple pleasures of life.	 2.Students find it difficult to agree with the teacher's point of view Teacher provides examples like: an old photograph with a friend; or the joy we receive in helping other people. 	

TEACHER ACTIVITY	RATIONALE/ JUSTIFICATION	STUDENT ACTIVITY	ANTICIPATED PROBLEM	TIME / MATERIAL
 1. 1st Reading: 1.The Teacher reads the poem slowly with correct pause and intonation 	1.To develop in them an appreciation of the lyrical quality of the poem	1.Students listen (with books closed) and try to identify key words.	1.Students are unable to catch any key words.	
2 nd Reading				
(Model Reading)				
2.Teacher reads the poem again	2.To help discriminate different sounds.	2.Students "reads" (with books open) along with the teacher. Underlines or circle words that rhyme or difficult words.	2.Students cannot do so.Teacher gives examples like:Cloud : CrowdLime: Time	
3.Teacher discusses the first stanza (Making a student read the para).	3.Students participation in reading the poem.	3.Students listen to their classmate.		5 Mins

TEACHER ACTIVITY	RATIONALE/	STUDENT ACTIVITY	ANTICIPATED PROBLEM	TIME / MATERIAL
	JUSTIFICATION			
4.Teacher clearly pronounces the difficult words and writes them on the board.	4.Students understand the poem better	4.Students take down the meaning and also get to pronounce the words individually.		
Eg: wandered:to roam or move about aimlessly				
Gets the whole class to repeat the word in Chorus	5.The word	5. Students get to provide different	3.Students cannot	
Gives an example to show how the word is used.	explained this way can personalize understanding.	examples	comprehend the meaning clearly. Teacher situationalises the word Eg.:1 wandered into the jungle	
5.Teacher uses various questioning strategies to elicit answers. Eq:. Where is the poet?	6.Students give their interpretations.	6.Students respond to the questions.	4.Students are unable to answer the questions. Teacher gives certain clues.	
What kind of crowd did he come across?			Eg: Crowd is usually used to refer a group of people, but here it stands for the daffodils.	

TEACHER ACTIVITY	RATIONALE/ JUSTIFICATION	STUDENT ACTIVITY	ANTICIPATED PROBLEM	TIME / MATERIAL
6.Teacher asks students to pick out the rhyming words (as given in the previous example cloud:crowd)	7.Students can discriminate sound patterns.	7.Students point out these words.Eg: tress:breezeStudents know that the sound is similar in the middle.	 5.Students are unable to do so. Teacher reads the lines where these words are present and stresses on these words while doing so. The question is then repeated. 	5 mins
7.Teacher proceeds through the rest of the poem in a similar fashion.				5 mins
Makes another student read the 2 nd stanza.				
Explain difficult words like 'continuous'; 'sprightly';'outdid'; 'gay'; 'jocund'; 'oft' ; 'pensive'; 'inward eye'; 'solitude'; etc.				
These words are written on the black board and numbered. Teacher discusses these	8.It serves as a reference for the students.		6. Students give grammatically incorrect sentences. Eg: I am continuous walking.	

words through a variety of situations.*			Teacher: I am continuously walking.	
8. Teacher asks questions like :				8 mins
Q. What are the stars being compared to?Q. Whose heads were	Students identify the metaphor in the poem.	Students respond with appropriate answer. Eg.: Ans: Stars are being	Students are unable to understand the metaphor. Teacher	
cossing? Q. Who is `beside them' in the poem?	By doing so the teacher elicits the	compared to the daffodils.	provides an example from the 1 st para. 'I Wandered lonely as a	
Q. What does jound company signify?	answers from the students.		cloud' 'I' is compared to the 'clouds'	
Q. What is 'wealth' here?			ciouus	
Q. What is the `inward eye'?		Ans: Wealth here means the quality of thought, i.e., happiness which is		
Q. What is 'the bliss of solitude'?		pure and free.		
Q. Why does the poet's heart dance with the daffodils?				
3 rd Reading:				
12. Teacher asks students to read the poem aloud by		Students read with correct stress,		

dividing the class into 4 groups.		synchronizing their reading		
III LESSON CLOSURE				
2.Teacher asks students from groups identified to draw images from the poem.	This develops the ability to convert	Students draw images pertaining to the stanzas.		5 mins.
OR	verbal to visual mode thereby			
Teacher can ask students to write 2-5 sentences on:	giving their imagination free			
A thing of beauty is a joy forever.	play that would lead to greater appreciation of images in the poem.			
	Students can express their feelings about the poem through this activity.	Students write down these sentences keeping in mind the poem just completed.	Teacher can assist the students in writing these lines by providing the first sentence.	

<u>Appendix – 1b</u>

Name of the Student Teacher:

Class: IX STD

Name of the Supervisor :

Subject: Time: 45 mins School:

PROSE: THE SNAKE AND THE MIRROR

INSTRUCTIONAL OBJECTIVES:

To enable the students to:

- i) develop insight into the multiple meanings and uses of words
- ii) read and comprehend the main ideas in 'a passage'.
- iii) express themselves fluently in speech and in writing.
- iv) engage in a discussion on ethical and ecological issues.

PRE REQUISITE KNOWLEDGE:

- 1. Students know how to refer to the glossary
- 2. They can read a passage silently.
- 3. They know about myths, legends and superstitions associated with snakes and mirrors.

TEACHER ACTIVITY	RATIONALE/ JUSTIFICATION	STUDENT ACTIVITY	ANTICIPATED PROBLEM	TIME / MATERIAL
 ENGAGE: The teacher asks the following questions: What are the poisonous snakes in your locality? Name some of them. What is the festival of snake worship called? Do snakes actually drink the milk offered to them? Do snakes chase and attack people? Do snakes take revenge on people who attempt to kill them but leave them half dead? 	 To develop students' ability to listen and respond by providing the information sought. To sensitize students about ecological issues 	Students answer the questions asked ,discussing popular beliefs and myths about snakes	If students are unable to come up with the required answers, teachers can read to them from informative articles about snakes. Students listen and then respond to the questions asked	7 mins Articles about snakes

TEACHER ACTIVITY	RATIONALE/ JUSTIFICATION	STUDENT ACTIVITY	ANTICIPATED PROBLEM	TIME / MATERIAL
 EXPLORE: 1. The teacher asks the student to read first 6 (six) paragraphs silently, underlining unfamiliar words and phrases. The teacher asks the students to look up the words in the glossary. For words like <i>meager, admirer</i> and <i>adjusted</i> occurring in the passage, word web is used to help students to build up vocabulary though associated words. 	i)To develop an understanding of the multiple meanings of words.	 i)Students look up the meaning of words in the glossary ii) The students' build up a word web for other unfamiliar words to arrive at synonyms and multiple meanings. 	Teacher helps students individually or in groups to locate answers by reading out relevant lines from the passage.	15 mins
2) The teacher asks students to read the passage silently and find answers to pre- reading questions. Students discuss the answers with pairs or in groups. The pre-reading	ii) To mediate students' comprehension of the passage	iii) Students' read the passage, locate and discuss answers first in groups and then with the whole class.		

questions are:		
a)Who was narrating the story about a Cobra?		
b) Where did the narrator live?		
c) Why couldn't he sleep?		
d) What effect did the mirror have on him?		
e) What did he hear?		
f) What did he think the noise was?		
g) What do you know about the narrator? Think of five adjectives to describe him.		

TEACHER ACTIVITY	RATIONALE/ JUSTIFICATION To provide students	STUDENT ACTIVITY Students' articulate their	ANTICIPATED PROBLEM	TIME / MATERIAL
i) The teacher mediates a discussion on the passage based on students' response to the pre-reading (scaffolding) questions.	with an opportunity to express their understanding of key elements of the passage.	understanding of the passage.	students to explain in their home languages their understanding of the passage. The students are allowed to borrow the teacher's language in rephrasing their answers in English.	0 111115
 ELABORATE: i) The teacher asks students the following questions: a) Do you believe a broken mirror brings bad luck? b) What are the other beliefs / superstitions about mirrors? c) Do you have faith in these beliefs? Why / Why not? 	i)To develop critical thinking ii)To develop students' ability to express themselves fluently in speech		The teacher reads out from a list of positive and negative superstitions about mirrors and generates discussion on superstitions.	8 mins

EVALUATE: The teacher asks the student to write a letter to the Editor of a local paper explaining why forcing snakes to drink milk during 'Naga Panchami' is an act of cruelty	To develop the ability to communicate effectively in writing	 i) Students discuss the format of a letter and share information about rituals related to 'Naga Panchami'. ii) Students write a letter to the editor of a local newspaper as a home assignment. 	For students who need help with the task the teacher shares an article on the torture of snakes during 'Naga Panchami'. Teacher provides the format of a letter.	7 mins
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Appendix - 4

LESSON PLAN IN CHEMISTRY

Name of the Teacher: Dr.G.R.Prakash Class: VIII Key Questions:

1. Is burning and combustion same?

2. Why is petrol a preferred fuel in automobiles?

Learning Objectives:

Students will be able to:

Classify the fuels as solid, liquid and gaseous fuels

Recognise combustible and non-combustible substances

Define combustion

Infer the conditions essential for combustion

Major Concepts

Combustion is an exothermic reaction

Fuels are available in solid, liquid and gaseous forms

The essential conditions for combustion to occur are: a combustible substance, a supporter of combustion and ignition temperature

Learning Resources: Candle, match box, stone, glass piece, wood, paper, kerosene. Charcoal, glass beaker.

Prior Knowledge

States of matter, Energy and its forms

1 Page

Topic: Combustion

Phases/ Concepts	Teacher Initiatives	Learners Active learning	Assessment And Blackboard work
Engage	Teacher asks the students to list out /Recall various fuels used in home. Tr. Gives hints to get more examples which they are familiar but are ignored. (Think of energy and then the fuel used) Add to your list the fuels that you find outside your home.	Students list out in their books. Student make a bigger list.	
Fuels may be in solid ,liquid or gaseous forms	 Tr. Asks the students to classify the fuels into solid, liquid and gaseous fuels Tr. Puts following questions: Why do we use fuels? What do we call the process of obtaining energy from fuels? Is burning same as combustion? 	Students classify the fuels Students recall that fuels are used to get heat/light Students recall burning.	solid liquid Gaseous
Explore	Tr. Asks the students to define combustion Let us see the answers to these questions in this class. Tr. Asks the students to perform the following activity Hold the below listed materials to the candle flame and enter your observation in the table provided		

	Tr. Informs the class that the substances that burn are 'combustible' substances.		rm the activity un teacher and enter		material	burns	Does not burn	
Combustion is an	Tr. informs students to observe variations if any		that combustion	is a process of	Maad		burn	
exothermic reaction	among combustible substances.	burning.	that combustion	13 a process of		Wood		
exothermitereaction	Tr. questions: Which is more important for a fuel?-	During.			Paper Stone			
	flame or production of heat/light?	Students recog	nise that product	ion of heat is	Kerosene			
	Tr. Asks students to justify food as a fuel.	more importar		ion of neutro				
	Tr. Asks the students to classify the given combustion		on out that food g	vives us energy	Charcoal			
	reactions in a table on the basis of energy produced	Students classi	0	inco do crición	Glass			
	Burning of magnesium wire, $2Mg+O_2 \rightarrow 2MgO+\Delta$ Rusting of iron4 Fe + $3O_2 \rightarrow 2Fe_2O_3xH_2O+\Delta$	Heat only	Heat & light	Heat, light and sound	Iron nail		•	
	Lighting of crackers Lighting a match stick $4P + 5O_2 \rightarrow 2P_2O_5 + \Delta$ Running an automobile engine				What happens when Suburnt ? Is it also comb			
	Tr. Draws the attention of students to the fact that some combustions are slow while others are fast.				S+O	so₂ +∆		
Explain	What is the role of Oxygen in the above reactions?ExplainTr draws the attention of students andBurns a candle in air and within an inverted beaker.Tr. : What do you observe?Tr: So, What do you infer from this?Repeats the above experiment with a paper.		Students observe that the candle puts off inside the Beaker.			role of ox urning?	ygen in	
	Tr. Makes the class into 5 groups and asks them to arrive at answers to the following questions by discussion: Why does a match stick does not catch fire by itself? How does a forest fire break out? Why is petrol used in cars but not kerosene? Tr. Shows a video clip	Students infer that air is essential for burning. Students recognise the need to supply a minimum temperature.						

Conditions essential for	www.youtube.com/watch?v=2W2bpDmyiVg	
combustion are:		Students observe
1. Combustible	Tr. Introduces the term ' ignition temperature' as the	
substance	minimum temperature to be supplied	
2. Supporter of		Students list out the conditions.
combustion	Tr. Informs the class to list out the essential	
3. Ignition	conditions for combustion to occur	fuels Boiling
temperature		point
	Tr. Shows the chart of boiling points of	Kerosene 150°C
	kerosene,diesel and petrol.	Petrol 38°C
ELABORATE	Which of them do you think is the best fuel and why?	
	REVIEW	Diesel 154 C
	1. Define combustion	
	2. What are the characteristics of a good fuel?	
	3. What are the essential conditions for	
	combustion to occur?	
	ASSIGNMENT	
	1. How does combustion take place in our body?	
	Write its equation	
	2. Construct a Concept map linking the	
	following:	
	Combustion, reaction, combustible substance,	
	supporter of combustion and ignition	
	temperature' slow, fast	
	3. Identify the role of each component in a	
	rocket fuel mixture.	
L		

Appendix-3 Lesson Plan in Biology

Name: Dr. Manjula P. Rao

Class:

Unit: Why is it that the leaves of different plants are designed so differently?Lesson : How are aquatic plants adapted to live in water?

Learning Objectives:

The students will be able to

- Defines the meaning of hydrophytes
- Performs activities to reason out the adaptation of leaves in aquatic plants.
- Given a number of examples, students will be able to identify the aquatic plants
- Differentiates between submerged and free floating aquatic plants
- Reasons out as to why the roots are reduced in size in the aquatic plants
- Reasons out as to why some of the aquatic plants float on water

Major concepts:

- Leaves are adapted to suit the environment in which they are growing.
- Leaves of certain plants are variously designed to perform certain functions other than the basic functions.
- Those plants that have adapted to living in or on aquatic environment are called hydrophytes.
- Characteristics of hydrophytes
- Submerged and free floating aquatic plants

Key questions:

Why is it that the leaves of different plants are designed so differently? What makes the aquatic plants different from the plants growing on the land?

Learning strategy/ resources:

Inquiry, acitivities

Pictures and specimens of aquatic plants

Prior /previous knowledge:

• Familiarity with different types of leaves around in daily life; Basic functions of leaf

Concepts & phases of the lesson	Teacher Initiatives	Learners active learning	Assessment and BB work
Introduction (ENGAGE)	The teacher narrates the following incident, The other day, my neighbour's kid, a six year old girl had come to my house. I had asked her the following question showing the trees in my garden. Why is it that the coconut tree leaves grow only on the trunk of the tree, and not directly from the ground? I thought		(On BB) Why is it that the leaves of different plants are designed so differently?

she would give me one of her funny and interesting answer.			
But I was surprised when she	Students raise their inquires		
put a question back to me. She	related to designs of leaves in		
asked me why the coconut tree	plants growing in different		
leaves grow only on the	habitats.		
coconut tree and not on a			
mango tree and why some			
plants growing in water look			
different from those growing			
on the land What meaningful			
questions indeed! I wonder,			
how many of you will have			
asked a similar questions to			
yourselves. Teacher asks if			
the students have similar			
questions			
Teacher says, "Today we all			
shall try to find answers to			
these questions as to how the			
leaves are designed and why			
they are designed so		(a)	
differently". (writes the topic			
of the lesson in the form of a			
question on the BB)			

Development	Teacher asks the students to write down different types of	Group discussion Discuss in groups and list	
(EXPLORE)	plants that they have come across and draw their leaves. Teacher divides the class into small groups and gives 5 to 7 minutes for learners to complete the task	down the names of the plants known to them with the rough diagram of their leaves	
	Teacher asks one member from each group to read out what the groups have listed and draw the figures of leaves on the BB. Based on the	Presentation of the group work	Students from each group draw the figures of different types of leaves on BB.
	examples listed, teacher asks the following questions. What are the differences that you find in these leaves that	Observe that some are small, some are big, and leaves have different shapes.	
	you have drawn?	Infer that they are green in colour	
	What are the common things that you find among all the plants that you have listed?	Recall that due to the presence of chlorophyll	
	Why are the plants green in colour?	Recall that chlorophyll along with the other factors such as water, air and sunlight help in	

	How does it help the plants? What is the process known as? In which part of the plant does this process take place generally? Teacher connects the prior learning to the topic by asking the following question. "When there is a common function that take place in all types of leaves, why are they different in size and shape?" Teacher leads to the activity by saying "Let us examine a plant and see whether environment is the cause for the difference in size and shapes of leaves of it"	preparation of food and recalls the process as photosynthesis. Identify that photosynthesis takes place mostly in the leaves of the plants. Hypothesize that it may be due to the environment in which they grow.	
Adaptation of leaves in aquatic plants	Teacher shows the leaf of a lotus and asks whether they had seen it earlier anywhere Teacher asks the students to describe the shape of the leaf. Teacher confirms by saying	Identify the plant to which the leaf belongs and recalls its habitat. Observe and describe the appearance of the leaf	Writes students' response on BB

that the lotus leaf is almost		
round in shape. Teacher	Recall from their observations	
continues with the following	and earlier learning.	
questions.		4
Where are the roots of the		
lotus found?		
Where do the roots draw water		
and minerals from?	Hypothesize that excess water	
Based on the response of the	is thrown away through	
students, teacher asks the	stomata.	
following questions.		
What happens if excess water		
is taken in by the roots? How		Writes students predictions ON
does lotus plant survive in that	Students predict variously.	BB in brief
condition?		
Teacher takes the example of		
a hibiscus plant and asks,		
"Suppose, we keep the plant		
for many days in the water		
where it is in a condition of	Predict that in case of total	
submerged or floating, will it	water loss, the plants would	
survive as lotus does? What	go dry.	
happens to the hibiscus plant?	Hypothesize that as water is	
Based on the predictions of	lost though their pores, more	
students, the teacher asks the	need for water is generated	
following questions to recall	and water is absorbed by the	

EXPLAIN	their learning related to transpiration. What happens if all the water is lost through stomata? How is the loss of water through the leaves compensated? What is the process of loss of water through stomata called? Teacher comes back to the key question and asks "Usually, when leaves are kept in the water for a longer period, they get decayed. Why do the lotus leaves not decay, although they are in the water constantly? Teacher initiates the following activity to make students discover the answer to the question on their own.	roots. Recall the term Transpiration Activity 1 Students put water on the lotus leaves and on the rose plant leaf. They observe that water rolls on the lotus leaf, whereas in the rose plant, the leaves get wet.	
-	Some students are given lotus leaves, while some students are given rose plant leaves with petioles and beaker of water, and water in a bucket.	Identify that the leaf surfaces in both cases are different.	How does the leaf of a lotus plant differ from the leaf of a

	The students are asked to put water on both types of leaves.		hibiscus plant? And why?
		Observe that the leaf surface	
		in case of lotus, has a waxy	
	After the students conduct the	coating, whereas in case of	
	activity, teacher asks Why the water drops do not	rose plant, it is little coarse.	
	stick to the lotus leaves,	Reason out that the water	
	whereas they stick to the rose	drops do not stick to the lotus	
	plant leaves?	leaf due to the waxy coating	
	Teacher asks the students to	on the surface. and it is due to this the	
	observe both the leaves (rose,	this the	
	lotus) carefully followed by a		
	question,		
	"How do the leaf surfaces		
	feel in both the cases?"		
	Teacher repeats the earlier	Reason out that transpiration	What are hydrophytes?
	question	will be affected, thereby	
		leading to excess of water in	
EXPLORE	Teacher adds to the	plant which affects the plant.	
EAPLORE	explanation given by the students by saying that, it is		
	due to this waxy coating,		
	water does not stagnate,		

	because of which leaves do not get decayed even though they are submerged in water. Teacher probes further.		Differentiate between the submerged and the free floating aquatic plants
	What happens if the stomatal pores get blocked?		e.
EXPLAIN	Confirming that the students have understood the adaptation of lotus plant to live in water, introduces the concept of hydrophyte as follows. "Those plants that have adapted to living in or on aquatic environment are	Observe the pictures and recall that they have seen some of them growing in the water. Identify that some aquatic plants are grown totally under water, and some of them are grown on water.	
	called hydrophytes". Teacher shows some of the pictures of aquatic plants and asks students if they have seen them in their surroundings. Further, asks, What do you observe in	Observe the pictures and identifies the free floating and submerged aquatic plants and also recalls the names of some	How does the root system of an aquatic plant differ from that of a plant growing on the land?

common among the aquatic	of the plants	
plants seen in the pictures?		
Teacher confirms their		
observation by saying, "Some		
of the aquatic plants are		
submerged under water while		
some of them are free floating	Observe that the aquatic	
on water (uses appropriate	plants have reduced root	
terms such as 'submerged '	system.	
and 'floating')	Reason out that they need not penetrate into the soil like the	Why do the aquatic plants do not face the problems of
Teacher instructs the students	terrestrial plants to draw	wilting ?
to observe the pictures and	water.	
find out the free floating and		
submerged plants and asks		
them to name them, if they		
already know the local names.		
Teacher gives the names of	Identify that the leaf surface is	
some of the plants which the	large.	
students do not know like,	Tan Bor	
duckweed, lemna, pistia and		
so on.		
Teacher further probes,	Hypothesize that the aquatic	
What other features that you	plants will not face the	What makes the leaves of a
observe among these plants?	problems of transpiration, and	lotus plant float on water
Can you guess why they have	wilting.	Totas plant noat on water

	a reduced root system?		
	Teacher explains "Similarly	Cites examples of lotus plant	
	we also find other features in	and some known plants.	
	aquatic plants which are		
	different from terrestrial	Hypothesizes several reasons.	
	plants. They have a reduced		
	support and vascular system		
	and specialized leaves".		
	What are the other features		
	that you find in the leaves?		
	Confirms the observation by		
	saying that most of the		
	aquatic plant have leaves with		
8	large surface.	Recall the term 'buoyancy'	
	Teacher questions further,		
	So what are the problems that		
	are not faced by the aquatic		
	plants unlike the terrestrial		
	plants unice the terrestrial plants?	Identify that the stomata are	
	1	-	
	Teacher asks students to give	present on the upper surface	
	an example of aquatic plant	of the leaves which help in	
	where leaves are found	transpiration.	
	floating freely in water.		
	Asks to give a reason as to		
	why the leaves are found		
	floating.		

	Teacher explains saying the		
	plants have air cavities in their		
	roots, stem and leaves which		
	allow for gas storage and		
	diffusion and help the leaves		
	in floating on water.		
	Teacher attempts to relate the		
	concept with the physics		
	concept which is known to	· .	
	students by asking,		
	What is the term that is used		
	for something that floats?		
	Teacher further leads the		
	students to explore by asking,		
	You have said that the excess		
	water is expelled through the		
	stomata.		
	Where could the stomata be		
	in these plants?		
1	Teacher confirms and adds,		
	But stomata are not active in		
	all aquatic plants. For		
	example, those aquatic plants		
	submerged under water do		
	have stomata in them, but they		
	are inactive.		

APPLICATION (EXTEND or ELABORATE)	Teacher shows hydrilla plant and asks if they have seen the plant and if so, where. Teacher tells the name of the plant as"Hydrilla", then asks, How are they adapted to live in water? How do you prove that leaves allow the water to pass through?	Observe the plant and identifies the shape of the leaves. Hypothesizes that the leaves allow water to pass through them.	
		Activity 3 Confirm their hypothesis by doing an activity (dipping the hydrilla plant in large amount of water taken in a bucket) and proves by explaining that the fine finger like leaves allow the water current to pass through, thereby adapted to live against water currents.	

EVALUATE	Teacher Provides a worksheet consisting of different types of plants and asks students to identify the aquatic plants. Teacher gives the names of the aquatic plants given in the worksheet.	.Identifies the aquatic plants among the examples given in the worksheet and writes the local/ scientific names if known. Self checks the worksheet based on teacher's directions	
REVIEW	 Teacher reviews the lesson by asking the following questions What is a hydrophyte? Give some examples of hydrophytes? Why do the leaves of aquatic plants do not decay though they are in water.? How is the root system adapted in case of aquatic plants? Why do the leaves of lotus plant float? What is the difference between submerged and 		

	free fleeting equation
	free floating aquatic
	plants?
CLOSURE	So today you have learnt
	about how aquatic plants are
	adapted to live in water. There
	are many other designs and
	modifications that are found in
	the leaves of different plants
	growing in different habitats
ASSIGNMENT	which can explored in the
	next class.
	Find answers for the following
	questions.
	i. Why banana leaves are
	large in size and few in
	number?
	ii. Why does a mango leaf
	taper at the end?
	iii. Why the leaves of
	desert plants are
	different from a typical
	leaf?

Signature of the Observer

Lesson Plan in Biology

Lesson Plan Developed by: Dr.M.U.Paily

Name of the Teacher Tra	ainee	Subject: Science
Name of the Unit: Crop	Production and management	Name of the Topic/Lesson: Crops and Types of Crops
Class: VIII C P	eriod	Date:

Key Questions:

- 1. What is crop and crop production?
- 2. How is crop production different from agriculture?
- 3. What are different types crops and the basis for their classification?
- 4. Why is crop production and management important?

Learning Objectives

- Define the term agriculture, crops, kharif, rabi, cash, and food crops
- List examples of different types of crops
- Differentiate kharif crop from that of rabi crop, cash crop from food crop,
- traditional crop from hybrid crop
- Classify crops in to kharif, rabi, cash, and food crops
- Appreciate the importance of agriculture to human life

Major Concepts

- 1. Crop-when plants of the same kind are grown and cultivated at one place on large scale
- 2. Kharif crop the crops which are grown in the rainy season
- 3. Rabi crop the crops grown in winter season

- 4. Agriculture The branch of science which deals with methods of food production is known as agriculture.
- 5. Hybrid crops are crops that are produced by cross-pollinating two inbred plants.
- 6. cash/commercial crops A crop, such as tobacco, grown for direct sale rather than for livestock feed

Learning Resources

- 1. Background reading material on agriculture
- 2. Hand out/video of the song "Oats, peas, beans, and barley grow"
- 3. Chart of classification of useful plants and animals
- 4. Worksheet on agricultural products
- 5. Reading materials on types of crops
- 6. Map of India

Prior Knowledge

- 1. Some knowledge of crop, agriculture etc.
- 2. classification of useful plants and animals
- 3. uses of various plants and animals
- 4. nutrition in plants and animals

Phases/concepts	Teacher Initiatives	Learners active learning	Assessment & B.B.work
Engage	 Teacher/ students could sing the song- "Oats, peas, beans, and barley grow" and introduce the lesson OR View the video song - "Oats, peas, beans, and barley grow" from youtube to help the students engage in the lesson. <u>http://www.youtube.com/watch?v=oA1vQ14RwHs</u> 	 Listen to the video song and answer the question Go through the lyrics (handout) and actively sing the song along with the teacher. Answer the superiors 	
	 After viewing/singing this ask the question- In addition to oats, beans, peas and barley what else do the farmers' grow? OR ask the students to develop a concept map on agriculture in groups/list everything that they know about agriculture (individual) 	 the questions Students develop concept map in groups/list the concepts related to agriculture Students recollect the previous 	

			nimals					tion of use as advance	eful plants e		knowledge about useful plants and animals		
 Explore Agriculture - The branch of science which deals with methods of food production is known as agriculture. Appreciate the importance of agriculture to human life 	•	to the Discu Hand list al	e stude ss the out st l the a	ents an meani udent griculti	nd they a ng of the workshe	re asked e word ' ets, and ducts th	d to read 'agricult d have s at touch	d it in pair ure." tudents u	provided se them to sin a day.	•	Students read the hand out in pair Discuss the meaning of agriculture in small groups List the agricultural products that touch their lives	•	What is the importance of agriculture to human life?
 Crop-when plants of the same kind are grown and cultivated at one place on large scale 		home	e group crops,	os and	expert g	roups (rabi cro	the stude ps, kharif nts as sho	crops,	•	List the names of various types of crops Recognize different types of	•	What are the differences between crop and agriculture?
				1	Expe	ert Grou	p	5			crops	•	Using scoring rubrics assess the jigsaw activity
		to the detail	1 2 3 4 5 6 expert s about	cular ty ut the t	Kharif crops is provid	Food crops ded with rops an crops as	d they r signed	Hybrid crops g materia ead and c to them a		•	Interpret the meaning of different types of crops		

Explain	Group the students and ask them to revise and expand the	Explain the concept of	Assess the concept map of
 Kharif crop – the crops 	concept map on agriculture and present to the class	agriculture	agriculture
which are grown in the rainy season		• Define the term kharif, rabi, cash, food crops, and hybrid	 What is difference between rabi crop and
• Rabi crop – the crops	• Each expert group members explain to the home group	crop	kharif crop?
grown in winter season	members about the types of crops that they have explored	Differentiate kharif crop from	What are the difference
Hybrid crops are crops that	and they combine all points together	that of rabi crop, cash crop	between food crops and
are produced by cross-		from food crop, traditional	cash crops?
pollinating two inbred	• Students are asked to explain the meaning of crop based on	crop from that of hybrid crop	What are the difference
plants.	the jigsaw exercise completed	Define the meaning of crop	between normal/
• cash/commercial crops - A			traditional crop and hybrid
crop, such as tobacco,			crop?
grown for direct sale rather			Assess the write of
than for livestock feed			different types of crops
Elaborate/Extend/Application	• Find out and Show the distribution of various types crops on	 Locate the distribution of 	Assess the crop
	the map of India	various types of crops on the	distribution on the map of
	• Teacher ask the students in small groups to list the crops in	map of India	India
	their surrounding and classify them	Identify various types of crops	Classification worksheet to
	OR Teacher provide worksheet and ask students to classify	Classify the crops in to various	be assessed
	the given list of crops in to various categories – worksheet	types	

4

Review/summary/closure

1. The teacher can summarise the lesson using the concept map of agriculture developed by the students/teacher

2. OR summary of the lesson can also be made by asking questions like or summarise

a. What is agriculture?

b. Why agriculture important to human life?

c. What is crop? What are the different types of crops

d. Give examples for different types of crops

3. In the next class we shall discuss about what are the major developments in crop production in post independent India

Assignment/Home work

- 1. Find the major crops grown around the world, mark it on world map
- 2. Find out and list various agricultural activities around you
- 3. Collect information about Genetically Modified Crops (GM Crops)

Scaffolding Materials

Oats, peas, beans, and barley grow						
Oats, peas, beans, and barley grow, Next the farmer hoes the weeds,						
Oats, peas, beans, and barley grow,	Stands erect and takes his ease,					
Can you or I or anyone know	He stamps his foot and claps his hands,					
How oats, peas, beans, and barley grow?	And turns around to view his lands.					
First the farmer sows his seed,	Oats, peas, beans, and barley grow,					
Stands erect and takes his ease,	Oats, peas, beans, and barley grow,					
He stamps his foot and claps his hands,	Can you or I or anyone know					
And turns around to view his lands.	How oats, peas, beans, and barley grow?					
Oats, peas, beans, and barley grow,	Last the farmer harvests his seed,					
Oats, peas, beans, and barley grow,	Stands erect and takes his ease,					
Can you or I or anyone know	He stamps his foot and claps his hands,					
How oats, peas, beans, and barley grow?	And turns around to view his lands.					
Next the farmer waters the seed,	Oats, peas, beans, and barley grow,					
Stands erect and takes his ease,	Oats, peas, beans, and barley grow,					
He stamps his foot and claps his hands,	Can you or I or anyone know					
And turns around to view his lands.	How oats, peas, beans, and barley grow?					
Oats, peas, beans, and barley grow,						
Oats, peas, beans, and barley grow,						
Can you or I or anyone know						
How oats, peas, beans, and barley grow?						

Agriculture: Reading Exercise

The student will consider and discuss the following questions after reading the following Passage:

- 1. What is agriculture?
- 1. What are some of the ways it affects my life every day?"

"Ag" is short for agriculture. When you think of agriculture you probably think of people growing crops or raising cows, pigs, sheep and chickens on a farm. But agriculture means much more than that. The people who work in factories to build tractors and other farm machinery play an important role in agriculture. People in universities who research new agricultural products and new ways to grow food and fiber are involved in agriculture, too.

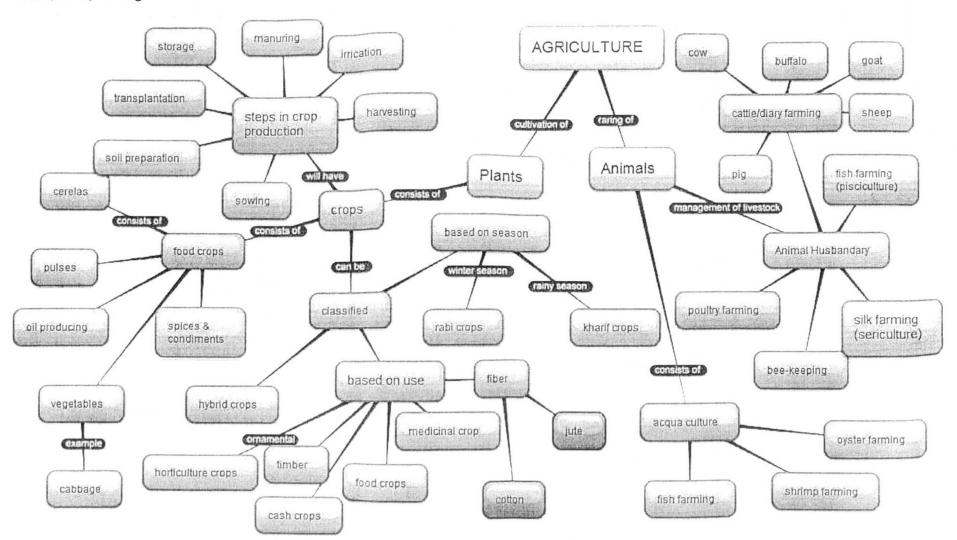
The grocer must buy agricultural products to fill the grocery shelves. The restaurant owner must buy agricultural products to prepare and serve his or her customers. The clothes you wear and the furniture on which you sit were probably made from agricultural products. You may already know that hamburgers and fried chicken come from agricultural products, but what about fish? In India fish farming has become popular. Fish farming, or aquaculture, is a new kind of agriculture.

One of the fastest growing kinds of agriculture in India is growing and selling greenhouse and nursery plants. Forestry is another growing form of agriculture. Tree farmers plant, nurture and harvest trees. Then they sell the trees to companies that make paper products. The people who work in factories where they make paper and the people who sell it in stores are as much a part of agriculture as the farmer who plants the tree.

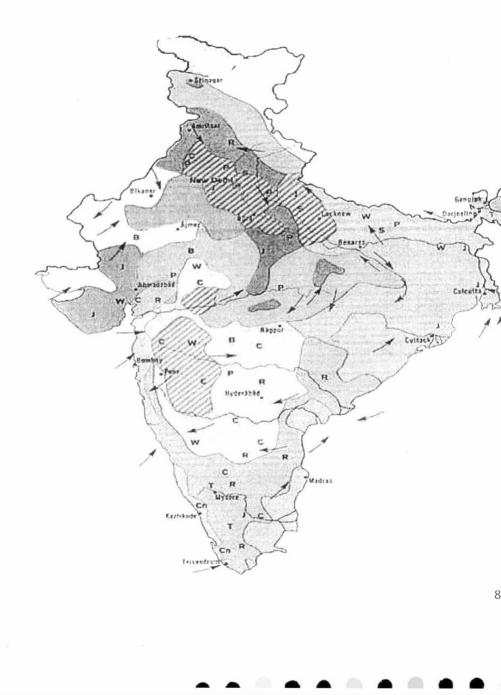
Think of all the ways in which agriculture touches your life. When you wake up in the morning, you might be lying on cotton sheets. Your pillow could be filled with down feather from a goose. The frame of your bed is probably made of wood. These are all ag products, and you aren't even out of bed yet. When you do get out of bed, you may put your feet onto a rug made from the wool of a sheep or a linoleum floor made from soybean oil. The soap you use in the shower might contain cottonseed oil or lanolin, a kind of oil from the sheep's wool. The handle of your hairbrush might be made from the bones and horns of a beef animal, and the bristles might be the bristles, or hair, of a pig. The towel you dry off with and the jeans and T-shirt you put on are made from cotton. Once you get to school you might pick up a crayon made from pig fat or soybeans. You've already used dozens of agricultural products, and you haven't even started eating yet. Just imagine a day without agriculture. Do you think you could survive?

6

Concept Map on Agriculture



7





Major Crop Areas

p Pulson

1 Jule

T Ten

Cri Coconut

S Sugarcane









Sparse vegetation

Note: Areas with two predominate crops are shown by afternate bands

- Winter flow

----- Southwest Monsoon

Appendix - 4

Name of the teacher: Dr. Dhanya K. Krishnan

School:

Class: 8

Subject: Science

Unit: Friction

Lesson: Is friction the same for all surfaces?

Learning Objectives:

Students will be able to

1. Predict that friction is different for different surfaces

2. Identify the factors affecting force of friction-

(i) Nature of the surface

(ii) Hardness with which the two surfaces are pressed

(iii) Shape of the object

(iv)Angle of inclination

1 | Page

Major concepts:

1. Factors affecting friction are

(i) The nature of surface.

(ii) The hardness with which the two surfaces are pressed .

(iii) Shape of the object.

(iv)Angle of inclination (if any).

Key questions:

1. Is friction the same for all surfaces?

2. What are the factors that affect friction?

Learning resources:

Set up 1-Wooden polished plank,sand,clothes,polythene,plastic,meter scale and pencil cell Set up 2-wooden plank, water,oil, glycerin, meter scale and pencil cell Set up 3-wooden plank, meter scale, protractor and pencil cell Set up 4- wooden plank, meter scale and different shapes of cart (at least 3) Set up 5- wooden plank,meter scale, slotted weights and a cart. Prerequisite knowledge:

1. Students know friction as an opposing force

2. Students have experiences of several daily situations where friction act-vehicles slowing down on application of brake, slipping when stepped on a banana peel, it is difficult to walk on a smooth and wet floor.

Concepts/phases	Teacher initiative	Learner's act	ive learning	Assessment and blackboard work
Engage phase	Teacher asks students about their experience of walking on a bathroom surface when	Students rec dry surface i comfortable	0	
	it is wet and when it is dry. Which surface is more comfortable to walk? And guess the reason behind this experience.	a wet surface predict that frictional for difference.		Friction as an opposing force
	Teacher further facilitates the discussion by posing another question that whether the friction will be same or different for different surfaces.	Some studer it will be diff some say it v same.	erent and	
Explore phase				
Factors affecting	Teacher divides the students			
friction	into five groups and to each group assigns an activity with the required apparatus or set up as described		structed and eading in the	
	below:			
		Group 1.	1	
		Different	Distance	
	Group 1 Woodon poliched	surfaces	covered	
	Group 1-Wooden polished plank, sand, cloth piece	Plane plank		
	plandy sandy croth piece		1	

pencil cell

group 2- water, oil, glycerin, meter scale and pencil cell group 3-wooden plank, meter scale, protractor and pencil cell group 4- wooden plank, meter scale and different

Group 5- wooden plank, meter scale, slotted weights and a cart.

shapes of cart (at least 3)

Teacher instructs the students that place the given wooden plank at a convenient angle to be kept constant for groups 1,2,3,4 and 5 and roll the pencil cell from the same and note the distance covered by the pencil cell until it stops. Repeat the same procedure for different cases and tabulate your observations: group1- for different surfaces provided group2-for different fluids provided as the surface group3- for different angle of inclination keeping the surface the same

	1
Cloth	
piece	
Polythene	
Group 2.	
	Distance
Surfaces	covered

Cases

to the

group

according

Distance

covered

Group 3.	
Angles of	Distance
inclination	covered
0	
20	
40	
60	

Group 4.

Shapes of	Distance
carts	covered
Rectangular	
front	
Conical	
front	
Spherical	
front	

Group 5.	
Weights	Distance
on a	covered

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	group4-for different shapes	cart(g)
	of carts provided	0
	group5-for different weights	100
	on a given cart	200
		300
Explain phase	After the completion of	Each group presents
	activity the teacher asks	their observations and
	each group to present their	infer that
Friction is more for rougher surfaces	observations and explain.	
		Group 1- the roughness
		increases the distance
		covered decreases hence
		friction is more for
		rougher surfaces.
Friction provide by		
slippery surface is less		Crown 2 mans tha
support surface is ress		Group 2-more the
		slipperiness of the fluid more is the distance
		covered hence friction
		provided by slippery
Friction decreases with		surface is less.
increase in angle of		Crown 2 as the angle of
inclination		Group 3- as the angle of inclination increases the
		distance covered
		increases hence the
		increases nence the

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Friction increases with increase in surface area

Friction increases with increase in weight.

Teacher concludes the session of activity by saying that friction depends upon four factors i.e, (i) The nature of surfaceroughness and smoothness. (ii) The hardness with which the two surfaces are pressed i.e. the weight of the objects. (iii) Shape of the object. (iv) Angle of inclination. friction decreases with the increase in angle.

Group 4-as the frontal area of the cart increases the distance covered decreases hence the friction increases with increase in surface area.

Group 5-as the weight on the cart increases the distance covered decreases and infer that friction increases with increase in weight

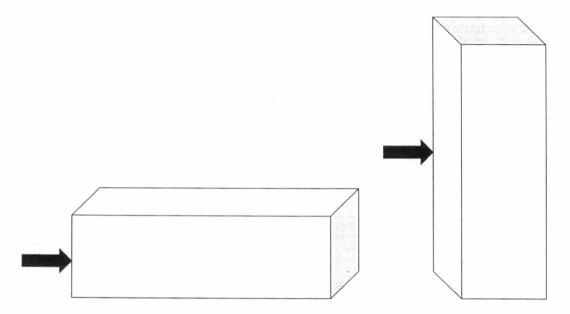
	Teacher asks students to	Students identify various	B.B:
	identify daily life situations	daily life instances of	Friction depends upon
	where friction varies with	friction such as braking	four factors i.e.
Expand phase.	various factors.	of bus, slipping in a	(i) The nature of surface-
		polished surface etc	roughness and
			smoothness.
			(ii) The hardness with
			which the two surfaces a
			pressed i.e. the weight of
			the objects.
			(iii) Shape of the object.
			(iv) Angle of inclination.

Review Questions:

What are the factors which affect friction?

How does angle of inclination between two surfaces change the force of friction?

Home Assignment: Consider two identical objects as shown below. Do both the objects have same amount of friction when same amount of force is applied to them? Justify your



answer.

Appendix - 2

Sample Lesson Plan in Social Science

Name of the teacher	: V. Ramadas	Date: 26 th Feb 2013
Name of the cooperating	school:DMS, RIE Mysore	Duration:45 minutes
Subject	: History	Standard:IX
Unit/topic of the lesson	: French Revolution French society during late 18 th century	
Learning objectives:		

- 1. Students will be able to define the terms Old Regime, subsistence crisis, and middle class.
- 2. Students will be able to explain the structure of French society during late 18th century.
- 3. Students will be able to analyse the social, economic and political conditions that led to 1789 revolution in France.

Major concepts:

- The ancient regime and its crises
- Structure of French society--The estate system
- The struggle to survive--subsistence crisis
- Growing middle class and its desire to end privileges

Key questions:

What are the social, economic and political factors that caused French revolution?

Learning resources: Video on storming of the Bastille; Charts on features of Old Regime, economic crisis of France, caparison of the Three Estates; Cartoons depicting the condition of the third estate; Chapter- I of 'A Tale of Two Cities' by Charles Dickens.

Prior knowledge:

Students need to have knowledge of feudalismincluding the roles of the social hierarchy.

Students need to have an understanding of the following vocabulary: Revolution, Industrial Revolution, Political Revolution, social classes.

Concepts& Phases of the lesson	Teacher initiatives	Learner activity and responses	Assessment and BB work
Engaging	Teacher presents the following scenario and question: You are returning home from a shop that is out of food stock again. You have no food to take to your starving children. You are desperate. Suddenly, you turn a corner and come upon the king's palace. The King and his wife are living there in luxury while your children and most of your fellow citizens are starving. You seea mob surrounding the palace, demanding food and relief from heavy taxes. They have turnedviolent. Would you join the mob? Why or why not? What are the social issues involved in this scenario?	Students will respond to the scenario and write their responses in their notebooks and present during discussion. They would refer to freedom, equality and so on.	BB: Major points of students' discussion
	Yes, we are familiar with the ideas of liberty, freedom, equality and human rights. Do you know that these ideas also have a history? Where did these ideas originate?Can you mention a few political movements that were fought for freedom and equality? Teacher: The ideas of equality and freedom emerged as the centralideas of a new age; but in different countries they were reinterpreted and rethoughtin many different ways	The studentscite many political/revolutionary movements like India's freedom movement, anticolonial movements in America, Africa, and revolutions in France and Russian as well as the recent socio political movements in India, Sri Lanka, Arab countries, and other parts of the world	BB: Political movements mentioned by the students.
	Teacher: French Revolution was in fact beginning of a number of changes in the Asian and the European countries.Do you know when, how and		BB: What caused French Revolution?

	why did French Revolution take place? What caused the revolution?		
Exploring The ancient regime and its crisis.	 Now, a three minute video on Storming of Bastille will be shown, and a discussion based on the followingquestions will be initiated: What did you see in the video depicting a 	Students write their responses to the questions in their notebooksand presents during the discussion.	
	 revolution? What do you mean by revolution? What was the mob doing? What was the colour of the flag? What did they do with the flag? When did this happen, how many years 	They define the term revolution and relate the term to the revolutions of the 18th, 19 th and 20 th centuries, stressing the idea of "change."	BB: What is a revolution?
	 When did this happen, now hany years back? What happened after the storming of Bastille? What would have caused the French Revolution? 		
	Teacher guides the students to read the introductory portion of the chapter, note down the chain of events, and observe the picture (Figure 1) on 'Storming of Bastille' given there.	Students read the text and note the important events	BB: Major events of French revolution mentioned in the introduction of the chapter.
	Teacher: What might be the factors that led to the demolition of Bastille and execution of King Louis XVI? In order to answer this question we should have an understanding about the French society at the time of the revolution.		What does the demolition of Bastille signify?
The Estate society	Now teacher presents charts I and II (see appendix) depicting the features of the Old Regime' and its economic crisis for further exploring by the students.	Students analyse the economic condition of France under the old regime and gives reasons how it led to unrest among the people	What are the main features of the Old Regime of France? What kind of crisis was facedby Louis XVI and why?
	Teacher presents charts III and IV (see	Students analyses the privileges	What were the privileges

appendix)depictingacomparison of privileges and burden of the three estates for discussion. Asks the students to find answer to the questions: Who enjoyed the privileges? What were those privileges?Who suffered most under the old regime? What were the causes for their sufferings	enjoyed by the Clergy and Noblesand burdenssuffered by the third estate.	enjoyed by the clergy and nobles?
A bar diagram (See appendix Figure-1)illustrating the three estates in 1789 and the land each held during the Old Regime is presented, and asks: What conclusions can you draw about the relationship between the percentage of thepopulation in each estate and the percentage of land owned by that estate? Now teacher presents the following political cartoon (and or Figure 3 in the textbook)and ask what does it say about conditions in France under	Students interprets the bar diagram and make their conclusions Selected Statistics About the Three Estates in France (1789) Selected Statistics About the Three Estates in France (1789) Define the second	Why did the bourgeoisie want to overthrow the old regime?
Old Regime?	First Estate Second Estate Third Estate Students interpret the cartoon and make inference about the conditions of the poor people in France. Write their ideas in the notebooks	What unfair conditions existed in pre-revolutionary France?

	What does this contemporary political cartoon say about conditions in France under the Old Regime?		
Explaining	Teacher: Now imagine that population of a country is multiplyingvery fast, whereas increase in its	Students infer the probable problems	BB: important aspect of
Struggle for survival	food production is marginal. Whatwould be the consequences? Teacher explains how France under the Old	arise due to shortage of food and its consequence in social and political system.	subsistence crisis in France
	Regime underwent subsistence crises: (Increase in population from 23 million in 1715 to 28 million in 1789; increase in the demand for food grains; crop failures and low yields resulting in hoarding and inflated prices; widening gap between the poor and the rich widened).	Students explain the meaning of the term subsistence crisis in their own words.	What is subsistence crisis? What led to the subsistence crisis of France?
	Now the textbook activity(Figure 4-How a subsistence crisis happens?) will be taken up. After completing the textbook activity one of the student will be asked to fill in the blank boxes on 'The figure 4' on a chart or BB.	Students complete the activity in their own textbooks.	BB: Figure 4: How a subsistent crisis happens?
Growing middle class and its desire to end	Teacher again take the attention of the students to the Three Estates of the French society and ask: What do you think the main causes of the	Based on the previous discussions the students would point out <i>the inequality in distribution of powers and rights</i>	What are the main causes of the explosion of anger among Third Estate representatives?

privileges	explosion of anger amongst Third Estate	between these different estates as well	
	representatives?	as the burden of taxation as the chief	
	Now teacher explain the following developments	causes of anger among the third estate.	
	in France prior to the 1789 Revolution:	Students reason out the importance of	What is middle class?
	• Growing desire of the third estate to	educated people in a revolutionary situation.	Wilson and the sector of a local state
	overthrow the Old RegimeInability of the peasants and labourers in	They justify their views by explaining	Why was the role of educated middle class important in
	bringing about a change in the social and economic order	the social, political and economic conditions prevailed in France before	French revolution?
	 Emergence of the wealthy and educated middle class and their strong opposition against the privileged based social system Ideas of a society based on freedom and equal laws andopportunities by JohnLocke, Jean Jacques Rousseau and Montesquieu. 	the revolution.	What kind of a society the French people wanted to establish in place of the Old Regime? And why?
	As the discussion progress teacher asks 'how do we know about the social conditions and feelings of the people of France before the revolution? And take up the textbook activity on 'Source A'. Teacher helps the students to interpret the source materials.	Students read the source given in the textbook and attempt to answer the questions given there by making their own conclusions.	
Elaborating	After the above discussion, teacher reads pages 1 through 7 of 'A Tale ofTwo Cities'. Discuss the quote, "It was the best of times, it was the worst of times." OR	Group work: students discuss the quote in small groups and write down their observations in their notebooks and present the same in the class.	BB: "It was the best of times, it was the worst of times."
	Teacher can also ask the class to discuss in small groups the role of taxes in our society. (JohnMarshall's comment "The power to tax involves thepower to destroy" may be included for discussion)	Students discuss in small groups the issue of taxes and their reflections on people's lives.	BB:"The power to tax involves thepower to destroy"
Review	ew As the lesson concludes teacher asks the students Students infer some causes to cite the social, political and economic factors lesson.		What are the factors that led to French Revolution?

that caused French Revolution.
(Teacher guides the students to see the roles of
poverty and hunger, the middle class's desire
forpower, and the financial crisis in France brought
by France's aid to the colonies in the American
Revolution.)

Assignment

- 1. Write a letter to King Louis XVI giving advice on how he might avoid a revolution in his country.
- 2. Students may create a large map of France on poster board including the countries and bodies of water that are boundaries. Other feature can b added as the lessons are presented.
- 3. Short Quiz on the vocabulary to asses understanding of the terms.

Appendix to the lesson plan:

Chart I: The old Regime

Chart II: Government under the old regime

The Old Regime (Ancient Regime)

- Old Regime socio-political system which existed in most of Europe during the 18th century
- Countries were ruled by absolutism the monarch had absolute control over the government
- Classes of people privileged and unprivileged
 - Unprivileged people paid taxes and treated badly
 - Privileged people did not pay taxes and treated well

Government under the Old Regime: The Divine Right of Kings

- Monarch ruled by divine right
 - God put the world in motion
 - God put some people in positions of power
 - Power is given by God
 - No one can question God
 - No one can question someone put in power by God
 - Questioning the monarchy was blasphemy because it meant questioning God

Chart III: Economic Conditions under the Old Regime

Economic Conditions under the Old Regime

- France's economy was based primarily on agriculture
- Peasant farmers of France bore the burden of taxation
- Poor harvests meant that peasants had trouble paying their regular taxes
- Certainly could not afford to have their taxes raised
- Bourgeoisie often managed to gather wealth
 - But were upset that they paid taxes while nobles did not

Chart V: Comparison of privileges and burdens

Estate	Population	Privileges	Exemptions	Burdens
First	-Circa 130,000	•Collected the strine •Cansorship of the press	+Paid no taxes +Subject to Church	-Moral obligation (rather than legal obligation) to assist the poor and
	High-ranking clargy	"Centrol of aducation "Kept records of births, deaths, marriages, esc. "Catholic birth held honored position of being the state religion	law rathar than civil law	needy -Support the monarchy and Old Regime
		(practiced by monarch and nobility) "Owned 20% of the land		
Second	-Circa 110.000	-Collected taxes in the form of feudal dues	+Fald no taxes	 Support the monarchy and Old Regime
	•Noblas	•Monopolizzed military and state appointments •Owned 20% of the land		
Third	-Circa 25,000,000	None	*None	-Paid all toxes -Tithe (Church tox)
	·Everyone else;			-Ocres (sax on goods brought into cities)
	bourgaoissa, city workers, marchants,			 Corves (torced road work) Copitation (poil tax) Wingthéme (income tax)
	peacants, etc., along with many			•Goballe (sait tax] •Trille §land tax]
	parish priests			"Feudal dues for use of local mano?"s winepress, oven, etc.

The Three Estates

Chart IV: France Is Bankrupt

France Is Bankrupt

- The king (Louis XVI) lavished money on himself and residences like Versailles
- Queen Marie Antoinette was seen as a wasteful spender
- Government found its funds depleted as a result of wars
 - Including the funding of the American Revolution
- Deficit spending a government spending more money than it takes in from tax revenues
- Privileged classes would not submit to being taxed



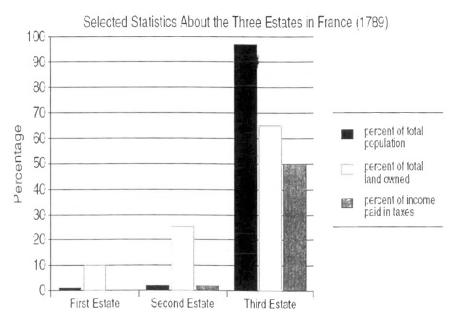


Figure 2: Political cartoon



What does this contemporary political cartoon say about conditions in France under the Old Regime?

Guidelines for assessment:

Letter to Louis XVI: The following rubric may be used to assess the letter: 4--Student addresses all components of causes of the revolution and i able to suggest specific compromise positions for the king. 3--Student addresses some causes of the revolution and suggests solutions OR student cite all causes of the revolution and makes general suggestions to avoid crisis. 2--Student addresses two or fewer causes of the revolution and letter is wea in giving reasonable solutions. Specific detail is not present. 1--Student addresses the prompt, but fails to give any reasons for the revolution or sugges any solutions indicative of understanding the causes of the political crisis).

Map making: This project should be graded on the basis of whether or not the maps are correct. Extra points might be given for creative presentation.



