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H.K.E. SOCIETY'S

BASAVESHWAR COLLEGE OF EDUCATION,

BVB CAMPUS, MANHALLI ROAD, BIDAR – 585 403 KARNATAKA, INDIA.
(Recognized by SRC NCTE, New Delhi and Permanent Affiliated to Gulbarga University, Kalaburagi)
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CRITERION – II

TEACHING LEARNING AND EVALUATION



2.4: Competency and Skill Development

2.4.2: Students go through a set of activities as preparatory to school-based practice teaching and internship. Pre practice teaching / internship orientation / training encompasses certain significant skills and competencies

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A	Unit Plan


IQAC Coordinator
H.K.E.S. Basaveshwar College of Education
BIDAR - 585 403 (Karnataka)


PRINCIPAL
H.K.E.S. Basaveshwar College
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Estd : 1980

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BASAVESHWAR COLLEGE OF EDUCATION, BIDAR

UNIT PLAN / UNIT TEST / RESOURCE UNIT

20²² - 20²³

Name of the Student Teachers Shivani S. Mugte

Roll No. 21

Reg. No. UDUAH22E0021

Subject Biological Science

Method I/II Method - II

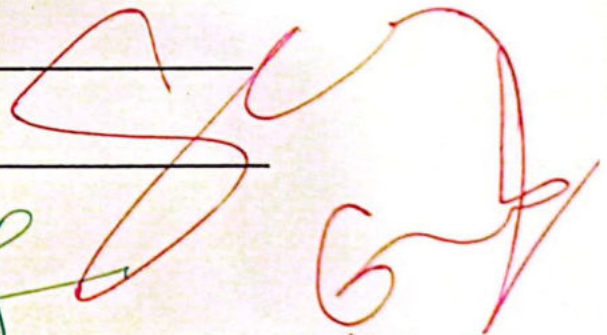

IQAC Coordinator

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PRINCIPAL

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of Education BIDAR


Signature of the Method Master

GULBARGA UNIVERSITY

KALABURGI

**DEPARTMENT OF STUDIES & RESEARCH IN EDUCATION,
KALABURGI-585106**

AND

**HYDERABAD KARNATAKA EDUCATION SOCIETY'S
BASAVESHWAR COLLEGE OF EDUCATION BIDAR-585 403**

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Unit Plan

⇒ Introduction:

Unit plan plays an important role for the successful execution of a task. It caters to the proper realisation of the aims and objectives of a task. It helps in proper utilisation of time and energy on the part of human and material resources. It is equally true for the process of teaching learning process. The teachers who plan their work properly prove quite effective in their teaching task that is why science teacher concentrates on wise planning of his teaching.

→ Meaning of Unit Plan:

The term Unit signifies Unity. Unit plan is the proper selection of learning activities. which are closely selected with each other and presents a complete picture. Unit plan is a plan made on the entire Unit which may consist a set of concepts, Principles generalization etc.

Which in turn together built, themselves into a Unit it is not simply a block of subject matter as viewed earlier but a systematic and scientific arrangement of subject matter.

⇒ Definitions of Unit Plan:

According to Preston:

A unit is the organization of learning materials into large block. A unit is large block of selected subject matter as can over viewed by the learner.

According to Sanford:

A unit is an outline of carefully selected subject matter which has been isolated block of its relationship to pupil's need and interest.

According to Cater & Good:

Unit may be described as an organization of various

activities, experiences and types developed co-operatively by a group of pupils under teacher- leadership.

IV) Characteristics of Unit Plan:

The good unit plan should be.

- 1) Meaningful Segment of well organized Subject Matter.
- 2) Organized body of information and experiences
- 3) Outline of carefully selected Subject Matters.
- 4) Large block of selected Subject Matter.
- 5) Not too length or too short.
- 6) Retains the ~~interest~~ of the Subject Students.
- 7) Provide different types of activities and learning Experiences
- 8) Permits to growth from time to time

Importance of Unit Plan:

1. It presents key ideas of subject in more unified and systematic manner
 2. It initiates new activities which are not possible during the class period
 3. It individualizes the instruction at PHS best
 4. It includes joyful types of teaching activities.
 5. It extends structural experiences beyond the limit prescribed by the Syllabus.
- It anticipates future needs and materials to be developed.
- It helps the teacher to realize the instructional objectives.
- It covers all the three domains

Learning Experiences has two dimensions:

1. Teacher activity: The role played by the teacher in class to cause learning
is teacher activity. The teacher does many activities in the class like
questioning, explaining etc.

• Pupil activity: They very system of education is weaved around a child
taken place in classroom. Hence it is expected to find a reaction for
every teacher activity by pupil.

evaluation: The purpose of Unit Plan is the achievement of the best
result of teaching-learning process. So the teacher should have
appropriate evaluation tool to know whether his objectives are
achieved or not. This can be done through Unit.

Merits of Unit Plan

- 1) Unit Plan makes the process of learning more interesting.
- 2) The students can apply the gained knowledge. Partially in their life.
- 3) In the process of teaching and learning, the participation of teachers and taught takes place.
- 4) It provides the proper coordination of subject matter with the life of the children and with the other school subject.

Demerits of Unit Plan

- 1) Only experts can teach by this method. which is available less in number.
- 2) Proper evaluation cannot be carried out in the lower classes.
- 3) It is time-consuming.
- 4) There is a lack of freshness and learning becomes monotonous and stereotyped.

Format of Unit Plan:

- 1) Information
- 2) Subject format
- 3) Nature and Objectives of Unit
- 4) Outline of Unit
- 5) Instructional objectives
- 6) Motivation
- 7) Development (or) Presentation
- 8) Activities
- 9) Teaching Aids
- 10) Evaluation
- 11) Unit test
- 12) Conclusion
- 13) References.

MODEL OF UNIT PLAN

Information:

Name of the student teacher : Shivani. S.M.

Name of the school : Kittur Raní Channamma Residential School.

Reg. No : UOUAH22E0021

Subject : Biological Science

Topic : ~~Pollution~~ of Air and water

Class : 8th std.

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Subject Format:

SI.No	SubUnits	Date
01	Air pollution	21/2/24.
02	How the air is getting polluted?	21/2/24
03	Green House effect	26/2/24
04	Water Pollution	21/2/24.
05	Potable Water	25/2/24.

Nature and objectives of unit:

-Air pollution is contamination of air by impurities which may have harmful impact on living organisms and the non-living organisms. Pollutants are the substances which contaminate air and water. Carbon monoxide, nitrogen oxides, carbon dioxide, methane and sulphur dioxide are the major pollutants of air. Increasing levels of greenhouse gases like CO₂ are leading to global warming. Water pollution is the contamination of water by substances harmful to life. Water which is polluted and ~~fit~~ for drinking is known as potable water. Water is a precious natural resource. We must learn to conserve it.

Outline of the Unit:

- 1) Sub Unit - I
 - 1) Introduction
 - 2) Air Pollution
 - 3) Air Constituents
- 2) Sub-unit - II
 - 1) Air Pollutants
 - 2) Effects of air pollution
 - 3) CFC's
- 3) Sub-Unit III.
 - 1) Case study on Taj mahal
 - 2) Green House Effect
 - 3) Global Warming

4) Sub-Unit - IV

- 1) Water Pollution
- 2) Water pollutants
- 3) How does water gets polluted?

5) Sub-unit V

- 1) Necessity on water purification
- 2) Potable water
- 3) How water can be prevented from pollution.

Instruational Objectives:

General Objectives.

- 1) To develop the Interest about learning Science.
- 2) To develop scientific attitude among students.
- 3) To develop abilities of imagination, reasoning.
- 4) To develop the skill of Science Experiment.
- 5) To increase the knowledge of nature of Scientific enterprise
- 6) Imparting the knowledge of fundamental Principles and Concepts in Sci
- 7) To develop logical ~~thinking~~ ^{thinking} among students.
- 8) To develop skill in handling and manipulating apparatus in Science.

Specific Objectives

Knowledge :

- 1) Students are able to State the Air Pollution
- 2) Students are able to Define the Pollutants.
- 3) Students are able to Recognise the green house effect
- 4) Students are able to Denote the water Pollution
- 5) Students are able to Define the Potable Water.

Understand :

- 1) Students are able to explain the Constituents of Air.
- 2) Students are able to observe how the air is getting polluted.
Global Warming.
- 3) Students are able to explain how the water is getting polluted.
- 4) Students are able to explain how the water gets filtered.

57 Application :-

- 1) Students are able to Analyse the Air pollution.
- 2) Students are able to give Examples of the gases which are making the air polluted.
- 3) Students are able to reason the Cause for global warming.
- 4) Students are able to give reason how water is getting polluted.
- 5) Students are able to new idea to prevent water-borne polluted.

47 Skill :-

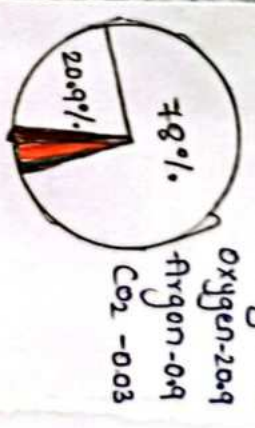
- 1) Students are able to discuss the constituents of Air pollution.
- 2) Students are able to connect the how the air is getting polluted.
- 3) Students are able to connect the green house gases.
- 4) Students are able to ~~connect~~ with the polluted. since specially the ganga is
- 5) Students are able to denote the Purified Water.

Notes/Answers

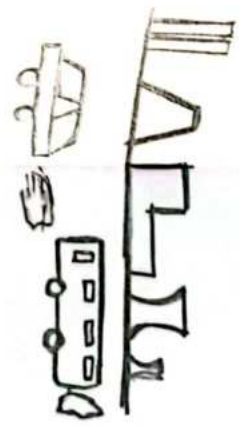
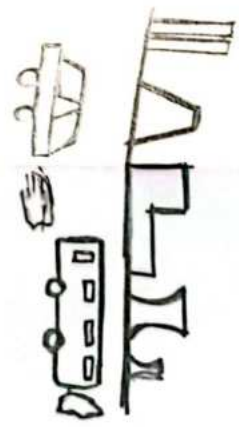
- Q Name some festival which are celebrated in India?
Ans - Rakhi, Dussehra, etc are some festival which are celebrated in India
- Q - How are celebrate Rakhi in India?
Ans - We celebrate Rakhi by lighting lamps and burning crackers
- Q What comes out after bursting the crackers?
Ans - Smoke, dust gases comes out after bursting the crackers
- Q What are the effect of smoke, dust on humans?
Ans - Smoke, dust causes breathing problem in humans.
- Q What are the harmful effects of gases on environment?
Ans - Harmful gases create pollution in environment.

Preparation (or) presentation:

Sl. No.	Topic	Teaching Aids	Co-selection	Time.
1) <u>Air Pollution</u> a) Introduction. b) Air pollution.	- Air Property 1) Air pollution and water pollution was thought by giving examples. 2) Pollution was & by lecture method. 3) Introductory Con the basic air 4) Air pollution is -ned by Prouff 5) Air Pollution is by lecture method. 6) Air pollution was thought uses showing charts 7) Air Constituents was explained by lecture Method. 8) Air Constituents was done by showing image of Air Constituents 9) Charts were shown.	Teaching Aids Physical, chemical or biological change in the air is called Air pollution	Co-selection Co-selected with the Environmental Science	15 mins 15 mins

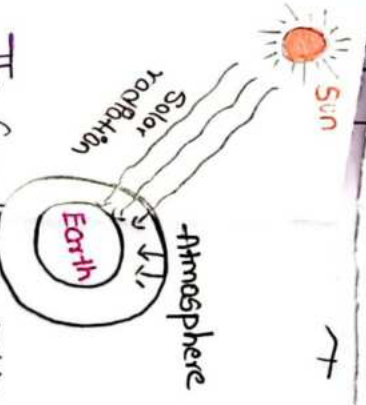


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Sl.No	Topic	Activity	Teaching Aids	Co-relection	Time
II	How the air is getting polluted.	Air pollutants were explained by lect	Teaching Aids	Co-relection	Time
I	Air pollutants.	Air pollutants were explained by lect explained by sh choudh.	Affects of Air Pollution 	Co-relection Co-related with the Ecological Science	15 min
2	Affects of Air pollution	Air pollution was done by den way explained by showing choudh	Affects of Air Pollution 	Co-relection Co-related with the Ecological Science	15 min
3	CFEs.	CFE's was done lect and Pt Nagam were explained	Affects of Air Pollution 1) Nitrogen dioxide 2) Carbon monoxide 3) Sulphur dioxide 4) Ground level ozone	Co-relection	15 min
		Used to teach CFE's			

Sl.No	Activity	Co-ordination	Time
<p>1) Green House Effect. Case Study on Taj Mahal?</p>	<p>1) Taj Mahal case was explained method. 2) Taj Mahal coloration was explained using examples. 3) Taj Mahal case was shown by c</p>	<p>Co-ordinated with the Chemical Science</p>	<p>15 mins</p>
<p>2) Green house effect.</p>	<p>1) Green house gases were explained. 2) Green house gases were thought by method. 3) Green house gas was explained. Deductive method</p>	<p>Co-ordinated with the Chemical Science</p>	<p>15 mins</p>
<p>3) Global Warming</p>	<p>1) Global warming explained by lecture method. 2) Global warming caused by greenhouse effect. 3) Global warming and its effects.</p>	<p>Co-ordinated with the Chemical Science</p>	<p>15 mins</p>

- Green House Gases**
- 1) Methane
 - 2) Nitrous oxide
 - 3) Carbon dioxide
 - 4) Ozone
 - 5) Carbon Monoxide



The Greenhouse Effect.

The gradual increase in the Earth's temperature is called global warming.

S.No	Topic	Activities	Co-relation	Time
1)	Water Pollution	<ul style="list-style-type: none"> 1) Water pollution is explained by Indirect method. 2) Water Pollution is explained by Lecture method. 3) Water pollution is explained by showing chart. 4) Water pollutants explained by Indirect method. 5) Char's case shown on water pollutants. 6) Lecture method used to explain water pollution. 7) This concept was explained by Demonstration method. 8) Inductive method used to explain the concept. 9) Lecture method used for description. 	Co-relation with the physics to study Environmental Problems	15 min
2)	Water Pollution	<ul style="list-style-type: none"> 1) This concept was explained by Demonstration method. 2) Inductive method used to explain the concept. 3) Lecture method used for description. 	Co-relation with the physics to study Environmental Problems	15 min
3)	Air Pollution	<ul style="list-style-type: none"> 1) This concept was explained by Demonstration method. 2) Inductive method used to explain the concept. 3) Lecture method used for description. 	Co-relation with the physics to study Environmental Problems	15 min



Water Pollution

- 1) Sewage waste
- 2) Industrial waste
- 3) Fertilizers
- 4) Pesticides
- 5) Detergents

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 ಬಸವೇಶ್ವರ ಶಿಕ್ಷಣ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ

S.NO		Activity	Teaching -Aids	Co-valuation	Time
II	<p>Potable Water.</p> <p>1) Activity on water pollution.</p> <p>2) Potable Water.</p> <p>3) How water can be prevented from pollution</p>	<p>1) Activity method was used to explain the concept</p> <p>2) Experimental method was taught to the concept explain</p> <p>3) Lecture method was used</p> <p>1) Lecture method was used for explained the concept</p> <p>2) Inductive method was used to explain.</p> <p>3) Charts were shown on while explaining the concept</p> <p>1) Lecture method was used to explain.</p> <p>2) Many examples were explained.</p> <p>3) Inductive method was used to explain</p>	<p>Potable Water</p> <p>↓</p> <p>Safe to Drink (purified)</p>	<p>Co-valuation with the ecology and biological study.</p>	<p>15 mins</p>
			<p>REUSE</p> <p>REDUCE</p> <p>RECYCLE</p>		<p>15 mins</p>

Unit test :-

- 1) Unit test is taken at the end of the Unit.
- 2) Unit test is the important evaluation tool.
- 3) Unit test is pre planned and systematic by the teacher.
- 4) Unit test help in seeing the pupils achievement.
- 5) The Unit test helps to the teacher and pupils in the teaching learning process.
- 6) Unit test is based on the Unit of 8th std. describing about the sources of air and water pollution which consist of 26 questions with 25 marks and the time duration of 40 min (or) 45 mins.

Conclusion:

A Unit plan is very useful for both teaching and Learning process and has a lot of advantages for preparing a Unit, which can be create an idea of knowing the instructional objectives, methods of teaching, norms of teachings, teaching aids, teaching points etc. also more important is the achievement of the purpose. It is designed as per the following format of the Unit plan and it is helpful for the preparing the lesson plan easily in a short period of the time.

Referance :

1) Pedagogy of School Subject Biological Science → B.R. Ro machandriah

2) Science text book of 8th class → ~~NCERT~~

3) Internet Sources → Wikipedia .

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