

Mixture- INTEGRATED LESSON PLAN- CLASS 9th SCIENCE NCERT

NAME OF THE SCHOOL-		
CLASS- IX	SUBJECT- Physical Science	PERIOD-
DATE-	TOPIC- 'Mixture'	DURATION- 30 min
NAME OF THE SUPERVISOR-		
GENERAL AIMS	<ol style="list-style-type: none"> 1. To develop interest of students in physical science. 2. To develop an inquiry spirit in the students. 3. To help students to see the physical science in relation to the rest of the culture. 4. To develop interest in questioning. 5. To develop critical thinking and scientific attitude. 6. To develop supervisory ability in students. 7. To develop problem solving skills in students. 8. To make the students aware about inventions in the field of physical science and acquaint them with the knowledge of different streams of physical science. 	
SPECIFIC OBJECTIVES	<ol style="list-style-type: none"> 1. Students will be able to define mixture. 2. Students will be able to explain types of mixtures 3. Students will be able to distinguish between homogeneous and heterogeneous mixtures. 	
TEACHING AIDS	Chart, Roller board, pointer and other useful classroom equipments.	
PREVIOUS KNOWLEDGE	Students are already aware about matter.	
INTRODUCTION	PUPIL-TEACHER ACTIVITY	STUDENT's RESPONSE
	Q1. What do we get from cow? Q2. Name the constituents of milk? Q3. What is formed when more than one type of matter are combined?	<ul style="list-style-type: none"> • Milk • Water, fat, proteins, etc. • Mixture (problematic)
STATEMENT OF AIM	So, today we are going to study the topic 'Mixture'	
PRESENTATION		
TEACHING POINTS	PUPIL-TEACHER ACTIVITY	STUDENT's RESPONSE

1. DEFINITION OF MIXTURE	<p>Mixtures are constituted by more than one kind of pure matter, known as substances.</p> <p>In other words,</p> <p>Mixture contains more than one substance.</p>	<p>Student will be listening carefully.</p>
2. TYPES OF MIXTURES	<p>There are two types of mixtures on the basis of nature of the components that form a mixture:</p> <ol style="list-style-type: none"> 1. Homogeneous mixture- Mixture which have uniform composition throughout, are called homogeneous mixtures. They possess same properties and combination throughout their mass. E.g. Sugar in water Mixtures which contain physically distinct parts and have non-uniform combinations are called heterogeneous mixtures. These mixtures possess different properties and combinations in various parts. E.g. mixtures of salt & sulphur, oil & water etc. 	<p>Student will be listening carefully.</p>
3. ACTIVITY ON TYPES OF MIXTURES	<ul style="list-style-type: none"> Take two beakers. In first beaker, take 1 tsp of salt and add water to it. Mix it well and say this as group A. Fill second beaker with water and add 1 tsp oil into it. Say this as group B. You will notice that, group A mixture has obtained uniformity. Such mixtures are homogeneous mixtures. Mixture of group B is still non-uniform. You can clearly see both oil and water in different layers. Such mixtures are called heterogeneous mixtures. 	<p>Student will be listening carefully.</p>

BLACKBOARD SUMMARY	<ul style="list-style-type: none"> • Mixtures are made up of more than one substances. • Mixtures are of two types- homogeneous and heterogeneous. • Homogeneous mixtures have uniform composition. • Heterogeneous mixtures are non-uniform in composition. • Properties of homogeneous mixtures are same throughout their mass.
CLASSROOM SUPERVISION	Pupil-teacher will supervise the problem of the students and solve it.
EVALUATION QUESTIONS	<p>Q1. When two or more types of substances mix together, they form_____.</p> <p>Q2. Two types of mixtures are- homogeneous and_____.</p> <p>Q3. Mixture of sugar and water is an example of heterogeneous mixture.(True/False)</p> <p>Q4. Salt and water are homogeneous mixtures. (True/False)</p> <p>Q5. Which among the following mixture is an example of homogeneous mixture:</p> <ul style="list-style-type: none"> a) Iron filings and sodium chloride b) Salt and water c) Oil and water d) Sand and water
HOME-WORK	Q1. What is a mixture? Describe the types of mixtures with example.

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