

SOLUTION- INTEGRATED LESSON PLAN- CLASS 9th SCIENCE NCERT

NAME OF THE SCHOOL-		
CLASS- IX	SUBJECT- Physical Science	PERIOD-
DATE-	TOPIC- Solution	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 solution. 2. Students will be able to explain components of solution. 3. Students will be able to prepare some solutions. 	
TEACHING AIDS	Chart, Roller board, pointer and other useful classroom equipments.	
PREVIOUS KNOWLEDGE	Students are already aware about homogeneous mixtures.	
INTRODUCTION	PUPIL-TEACHER ACTIVITY	STUDENT'S RESPONSE
	Q1. Name some food items obtained from animals? Q2. What are the constituents of the milk? Q3. Name the common term used for such liquids in chemistry.	-Milk, egg -protein, water, etc. -Solution
STATEMENT OF AIM	So, today we are going to study the topic 'Solution'.	
PRESENTATION		
TEACHING POINTS	PUPIL-TEACHER ACTIVITY	STUDENT'S RESPONSE

1. DEFINITION OF SOLUTION	<ul style="list-style-type: none"> • A solution is a homogeneous mixture of two or more substances. • In solution, there is homogeneity at the particle level. • Solution is not only liquid that contains solid, liquid or gas dissolved in it but we can also have solid solution (alloys) and gaseous solution (air). 	Student will be listening carefully.
2. COMPONENTS OF SOLUTION	<ul style="list-style-type: none"> i. Solvent <ul style="list-style-type: none"> • The component of solution that dissolves the other component in it is called solvent. • Solvent is usually the component present in larger amount. i. Solute <ul style="list-style-type: none"> • The component of the solution that is dissolved in the solvent is called solute. • Solute is usually present in lesser quantity in a solution. <p>Example- A solution of sugar in water is a solid in liquid solution. Here, sugar is the solute and water is the solvent.</p>	Student will be listening carefully.
3. PROPERTIES OF SOLUTION	<ul style="list-style-type: none"> • A solution is a homogeneous mixture. • The particles of a solution are very small and cannot be seen with the naked eyes. • Due to the small particle size, they do not scatter a beam of light passing through the solution. • The solute particles cannot be separated from the mixture by filtration process. 	Student will be listening carefully.
BLACKBOARD SUMMARY	<ul style="list-style-type: none"> • A solution is a homogeneous mixture. • A solution has two components- solvent and solute. • Usually larger component of solution is a solvent. • Solute is usually present in lesser quantity in a solution. • Particles of solution are not visible to naked eyes. • Solution does not scatter a beam of light passing through it. 	
CLASSROOM SUPERVISION	Pupil-teacher will supervise the problem of the students and solve it.	

EVALUATION QUESTIONS	Q1. A solution is a _____ mixture. Q2. What are the two components of solution~ Q3. In a solution of sugar and water, sugar is a) Solute b) Solvent Q4. Particles of solution can be easily visible to naked eyes. (True/False) Q5. Path of light is not visible in a solution. (True/False)
HOME-WORK	Q. Define solution and write down components of solution.

Important links

- [CELLS- INTEGRATED LESSON PLAN- CLASS 9th SCIENCE NCERT](#)
- [States of Matter lesson plan- Class IX NCERT with pdf](#)
- [Mixture- INTEGRATED LESSON PLAN- CLASS 9th SCIENCE NCERT](#)
- [Complete Lesson Plan of Thomson's atomic model Class IX](#)
- [PARENT TEACHER ASSOCIATION \(P.T.A.\)- Assignment](#)
- [School Assembly: How to Conduct Assembly in School | Importance](#)
- [Aesthetic Development of School Campus](#)
- [School Campus Cleanliness: Need & Importance | Its Role](#)
- [Furniture Cleaning: Importance | Measures to keep them clean](#)

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