

D.V.S PUBLIC SCHOOL

(Recognized & Affiliated to CBSE)

ASSIGNMENT-1

Class- 9th Subject – Science

Chapter 2: Exploring Mixtures and separation

Name: _____ Class/Section: _____

Roll No.: _____

Date: _____

Q1. Which of the following is a homogeneous mixture?

- a) Sand and iron filings
- b) Oil and water
- c) Salt solution
- d) Soil

Q2. Assertion (A): Air is considered a mixture.

Reason (R): The components of air are chemically combined.

- a) Both A and R are true, and R is correct explanation of A
- b) Both A and R are true, but R is not correct explanation
- c) A is true but R is false
- d) A is false but R is true

Q3. Define a pure substance.

Q4. What is the difference between homogeneous and heterogeneous mixtures?

Q5. What is a solution?

Q6. Activity: Mix salt in water and observe.

Question: What type of mixture is formed?

Q7. Activity: Add sand to water and stir.

Question: What do you observe?

Q8. Activity: Pass a beam of light through milk and water separately.

Question: What difference do you observe?

Q9. Explain different methods of separating mixtures.

Q10. Differentiate between compounds and mixtures.

Q11. Case Study:

Riya mixed oil and water in a glass. She observed two separate layers. Later, she added detergent and shook the mixture.

Questions:

- a) What type of mixture is oil and water?
- b) Why do they form layers?
- c) What happens after adding detergent?
- d) Name the type of mixture formed after shaking.

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ASSIGNMENT - 1

CLASS - 9th | SUBJECT - SOCIAL SCIENCE

Name: _____

Roll No: _____

Question 1: How did the spread of electricity help farmers in Palampur?

Question 2: Is it important to increase the area under irrigation? Why?

Question 3: Why are the wages for farm labourers in Palampur less than the minimum wages?

Question 4: On what terms would Savita's condition be different if she could get a loan from the bank at a low rate of interest?

Question 5: Write a note on:

1. HYV Seeds