

CREST Science Olympiad (CSO) Worksheet for

Class 4

Topic

Methods of Separation and Classification of Materials





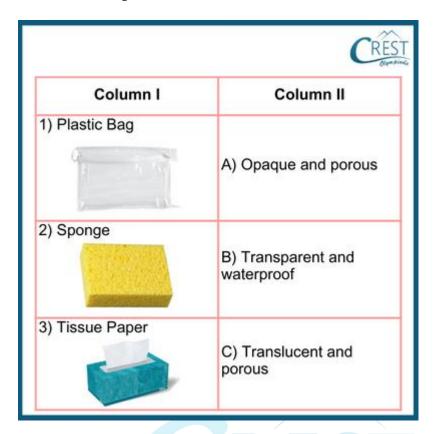




Worksheet on Methods of Separation and Classification of Materials

- 1. Which material would be the best choice for a windowpane to allow light to pass through clearly?
 - a. Metal
 - b. Ceramic
 - c. Frosted glass
 - d. Clear glass
- 2. Terry made tea by boiling some tea leaves in water. Which of the following methods should he use to separate the leaves from the tea?
 - a. Sedimentation
 - b. Decantation
 - c. Filtration
 - d. Evaporation
- 3. Which material would be the best choice for a pot handle to prevent burns when cooking?
 - a. Metal
 - b. Wood
 - c. Plastic
 - d. Glass
- 4. What is the purpose of using filter paper or sieve in the process of filtration?
 - a. To trap the insoluble particles
 - b. To speed up the filtration process
 - c. To collect the soluble substances
 - d. To evaporate the liquid

5. Match the following.



- a. 1:B, 2:C, 3:A
- b. 1:C, 2:A, 3:B
- c. 1:A, 2:C, 3:B
- d. 1:B, 2:A, 3:C



Answer Key

- 1. d The best choice for a windowpane to allow light to pass through clearly is clear glass. Clear glass is transparent, which means it allows light to pass through without scattering or blurring it significantly.
- **2.** c To separate the tea leaves from the tea, Terry should use the method of filtration. Filtration involves passing the mixture through a filter, which will trap the solid particles (tea leaves) while allowing the liquid (tea) to pass through.
- **3.** b The best choice for a pot handle to prevent burns when cooking would be wood. Wood is a good insulator of heat and does not conduct heat as effectively as metal, plastic, or glass.
- **4.** a The purpose of using filter paper or sieve in the process of filtration is to trap the insoluble particles present in a mixture and allow the liquid or solvent to pass through.

5. d -

Plastic Bag: Transparent and Waterproof

Sponge: Opaque and porous

Tissue paper: Translucent and Porous

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