



**CREST**  
*Olympiads*  
#CRESTInnovator

# CREST Science Olympiad (CSO) Worksheet *for*

**Class 4**



**Topic**

## Methods of Separation and Classification of Materials



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# 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.



Column I	Column II
1) Plastic Bag 	A) Opaque and porous
2) Sponge 	B) Transparent and waterproof
3) Tissue Paper 	C) Translucent and porous

- 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

**More Questions Coming Soon – Keep Learning!**





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