

Name: _____ Date: _____ Block: _____

Separation/ Matter Lab

Matter Station 1: Unknown Powder Solution: Read the directions at the station. Answer the below questions while completing the experiment.

1. Is this Chemical or Physical Change? How do you know?
2. Is this a Homogenous or Heterogeneous Mixture? How do you know?
3. What is the solute? _____ What is the solvent? _____
4. What lab equipment/glassware did you use at this station?

Matter Station 2: Tablets in Water Read the directions at the station. Answer the below questions while completing the experiment.

1. Is this Chemical or Physical Change? How do you know?
2. What lab equipment/glassware did you use at this station?

Matter Station 3: Alcohol, Oil, & Water: Read the directions at the station. Answer the below questions while completing the experiment.

1. Is this Chemical or Physical Change? How do you know?
2. Is this a Homogenous or Heterogeneous Mixture? How do you know?
3. What is the solute? _____ What is the solvent? _____
4. What lab equipment/glassware did you use at this station?

Separation Station 1: Read the directions at the station. Answer the below questions while completing the experiment.

1. Look into the funnel, what observations can be made?
2. Look at what comes out at the end of the funnel, what observations can be made?
3. What separation technique was used at this station?
4. Was your sample a mixture or substance? How do you know?
5. What lab equipment/glassware did you use at this station?

Separation Station 2: Read the directions at the station. Answer the below questions while completing the experiment.

1. After "turning on the power", what observations can be made?
2. What separation technique was used at this station?
3. Was your sample a mixture or substance? How do you know?

Separation Station 3: Read the directions at the station. Answer the below questions while completing the experiment.

1. What observations can be made at the completion of the experiment?
2. What separation technique was used at this station?
3. Was your sample a mixture or substance? How do you know?
4. Who wrote the ransom note? How did you know?
5. What lab equipment/glassware did you use at this station?

Separation Station 4: Read the directions at the station. Answer the below questions while completing the experiment.

1. What metals can be separated out? Describe each.
2. What separation technique was used at this station?
3. Was your sample a mixture or substance? How do you know?
4. What lab equipment/glassware did you use at this station?

Separation Station 5: Read the directions at the station. Answer the below questions while completing the experiment.

1. Before starting the experiment, what observations can be made?
2. What observations can be made at the completion of the experiment?
3. What separation technique was used at this station?
4. Was your sample a mixture or substance? How do you know?
5. What lab equipment/glassware did you use at this station?

Extension: (extra credit) Look up on the distillation process. What lab equipment is needed? What is the purpose of the technique? What are some real world applications? (do on separate paper, do not plagiarize, do not cut & paste from webpages==>needs to be in your own words)