Name: Absent version Date: _____ Block: _____

Matter Lab

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?

Dissolving solid in 100mL of water

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?

erlenmeyer Flask, scoopula, stopper

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?

solid tablets added to water. The liquid fizzed & bubbled until there was no solid left.

2. What lab equipment/glassware did you use at this station?

Beaker, forceps

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?

test tube #1 water & alcohol

test tube #2 water & oil

2. Is this a Homogenous or Heterogeneous Mixture? How do you know?

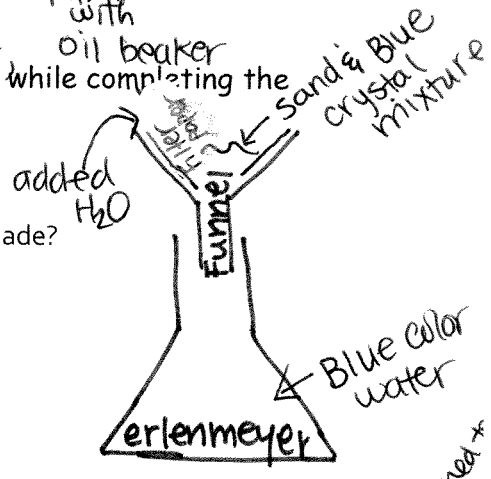
3. What is the solute? _____ What is the solvent? _____

4. What lab equipment/glassware did you use at this station?

2 test tubes, test tube rack, pipet with water beaker, pipet with alcohol beaker, pipet with oil beaker

Station 4: 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?

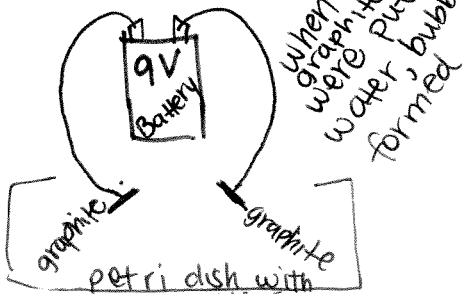
4. Was your sample a mixture or substance? How do you know?

5. What lab equipment/glassware did you use at this station?

Funnel, filter paper, erlenmeyer flask, wash bottle, scoopula

Station 5: 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?

Station 6: Read the directions at the station. Answer the below questions while completing the experiment.

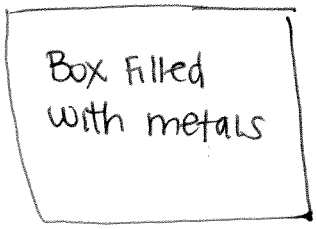
1. What observations can be made ~~at the completion of the experiment?~~ when paper chromatography is used?
2. What separation technique was used at this station? chromatography
3. Was your sample a mixture or substance? How do you know?
4. ~~Who wrote the ransom note? How did you know?~~ How can it be used to determine what brand of marker/pen is used in a ransom note
5. What lab equipment/glassware did you use at this station?

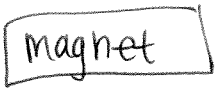
look up on paper chromatography explain the technique then answer questions to the left

Beakers, Filter paper, rubbing alcohol solvent, 4 different markers, known sample, chromatogra

Station 7: 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?





magnet

Station 8: 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?

a Q-tip was dipped into a solution then used to write/dra on a Black paper.... after time went on crystals formed on the paper in the image drawn.

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)