

Separation of Matter Lab

Names: _____

Do NOT remove the magnet from its baggie; it will still work in the bag and makes clean up much easier!

Separation of Mixtures

1. Examine the container with the sand. DO NOT MIX THE SAND WITH THE SEASHELLS!!!

- a. Circle the choice that describes this sand: **The sand has different sizes of particles.**

Homogeneous mixture

Heterogeneous mixture

- b. Check the BEST physical method(s) you could use to separate the mixture:

_____ picked by hand

_____ filter

_____ distillation

_____ dissolve

_____ magnet

_____ gravity (settling)

_____ evaporation (boiling)

_____ sieving

Show your results to your teacher and get signature to move on:

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2. Examine the container with the seashells. DO NOT MIX THE SEASHELLS WITH THE SAND!

- a. Circle the choice that describes this bean mixture: **Seashells have different sizes and shapes.**

Homogeneous mixture

Heterogeneous mixture

- b. Check the BEST physical method(s) you could use to separate the mixture:

_____ picked by hand

_____ filter

_____ distillation

_____ dissolve

_____ magnet

_____ gravity (settling)

_____ evaporation (boiling)

_____ sieving

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3. Examine the yellow mixture in the container. This is a mixture of sulfur and iron. Then, using the equipment on the table, use a physical method to separate the mixture into parts. DO NOT MIX THIS MIXTURE UP WITH OTHER CONTAINERS!!!!

a. Circle the choice that describes this scenario: **Yellow/ Grey powder mixed**

Homogeneous mixture

Heterogeneous mixture

b. Check the BEST physical method(s) you could use to separate the mixture:

_____ picked by hand

_____ filter

_____ distillation

_____ dissolve

_____ magnet

_____ gravity (settling)

_____ evaporation (boiling)

_____ sieving

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4. Using the **salt**, create a mixture with water in a beaker. You do not have to separate the mixture, but please indicate how that would be done below.

a. Circle the choice that describes this scenario: **salt water solution**

Homogeneous mixture

Heterogeneous mixture

b. Check the BEST physical method(s) you could use to separate the mixture:

_____ picked by hand

_____ filter

_____ distillation

_____ dissolve

_____ magnet

_____ gravity (settling)

_____ evaporation (boiling)

_____ sieving

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