

name: \_\_\_\_\_  
lab partner: \_\_\_\_\_



## Separating Mixtures Assessment (or the Un-making of a Pizza)

### The Mission:

Separate the (heterogeneous) mixture of 4 substances based on what you know about different substances and differences in solubility, density, and other physical properties.

### The Procedure:

1. Pass a magnet through the mixture to separate any magnetic substances. Set aside.
2. Add 50ml of water to the sample of mixture, stir, and separate any substances with a lower density than water. (These will be floating and can be skimmed off the top.)
3. Filter the solution through a cone of filter paper to remove any insoluble substances. Set aside.
4. Remove the solute from the solvent in the remaining solution by evaporation. (To speed this process, boil until all water is just evaporated.)

### Your Conclusions:

For all substances:

- Describe the physical appearance and other physical properties for each of the substances in the mixture.  
(Think: color, soluble, insoluble, crystals, magnetism, density)
- Tell how you were able to separate them from the original mixture.
- Guess as to what you think this substance is (we have seen all of these in one form or another before...)

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**Substance 1:**

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**Substance 2:**

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**Substance 3:**

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**Substance 4:**