

Filtration Worksheet

Name _____ Date _____ Period _____

1. In order for the mixture of solids to be separated by filtration, what characteristic property must be different between the fractions making up the mixture?

2. The liquid portion that passes through the filter is called the _____

3. The solid that is trapped in the filter is called the _____

For questions 4-6 use the following information.

Substance	Solubility in Water	Solubility in Methanol	Solubility in Ethanol	Solubility in Acetone
Magnesium sulfate	Yes	Yes	Yes	No
Sugar	Yes	No	No	No
Citric acid	Yes	Yes	Yes	No
Potassium chloride	Yes	Yes	Yes	No
Potassium iodide	Yes	Yes	Yes	Yes
Sodium chloride	Yes	No	No	No
Moth flakes	No	Yes	Yes	Yes

4. A student has a mixture of sugar and citric acid. They add methanol to the mixture and stir it thoroughly. They then filter the mixture. Which solid will be left on the filter paper, and which solid will pass through the filter paper?

Solid left on the filter paper _____

Solid that passes through the filter paper _____

5. A student has a mixture of moth flakes and magnesium sulfate. They add water to the mixture and stir it thoroughly. They then filter the mixture. Which solid will be left on the filter paper, and which solid will pass through the filter paper?

Solid left on the filter paper _____

Solid that passes through the filter paper _____

6. Two students are attempting to separate a mixture of solids by filtration. Their mixture consists of insoluble sand, sodium chloride and moth flakes. Tell specifically what you would do to get all three solids separated from each other. (use the back of the page if more space is needed)
