

Name _____

Date _____

Evaluate SC.5.P.8.3

1. Ebert's science teacher has a mixture of table salt and iron filings. Which of the following would be the **best** way to separate the salt and the iron filings?
 - A. Use a magnet to pull the iron filings from the salt.
 - B. Add food coloring to the mixture to make the salt change color.
 - C. Pour them into a beaker of water and see if the iron filings float.
 - D. Heat up the mixture to see if the salt or the iron filings will burn away.

2. Laisha has a container that contains thousands of mixed glass beads and iron beads of different shapes and sizes. Which of the following is the **best** way to separate them?
 - A. The glass beads will float so she could add water to the container and the glass will float to the top.
 - B. The iron beads are magnetic so she could separate the glass from the iron with a strong magnet.
 - C. The iron beads might be heavier so she could shake the container until the iron beads settle to the bottom.
 - D. The glass beads are larger so she could pour the beads through a strainer and the iron beads will separate.

3. Isaac has a bucket of saltwater. Which of the following would be the **best** way to remove the water so that Isaac is left with only salt?
 - A. Stir the saltwater for a long time. The salt will form a crystal.
 - B. Leave the saltwater to sit for a long time. The salt will settle to the bottom.
 - C. Boil the saltwater. The water will evaporate and only the salt will remain.
 - D. Freeze the saltwater. The water will sink to the bottom and the salt will rise to the top.

4. Jimmy has four buckets full of dark, muddy water. One bucket is frozen, one bucket is boiled, one bucket is shaken up, and one bucket is passed through a paper filter. Which bucket is **most likely** to become lighter in color?
- A. The frozen bucket because the mud will separate from the water.
 - B. The shaken bucket because shaking will cause the mud to dissolve.
 - C. The boiled bucket because the dirt in the muddy water will evaporate.
 - D. The filtered bucket because larger particles of dirt will strain out of the water.
5. Carlos has a mixture of iron filings, foam pellets, sand, and sugar. After separating the iron filings and foam pellets from the mixture, what would Carlos **most likely** need to do to separate the rest of the mixture?
- A. Filter the sand, evaporate the water, and then dissolve the sugar.
 - B. Filter the sand, dissolve the sugar, and then evaporate the water.
 - C. Dissolve the sugar, filter the sand, and then evaporate the water.
 - D. Dissolve the sugar, evaporate the water, and then filter the sand.