

Lesson 6: What Happens to Properties When I Combine Substances?

Activity 6.1

Purpose

We will check properties and make observations of baking soda and road salt and compare them to observations after the substances are mixed.

+ Safety

Wear safety goggles for this experiment. Wash your hands when you are done cleaning up.

Procedure

1. Make careful observations of the materials in the bag. Record your observations in the data table.
2. Put 5 g. of baking soda and 10 g. of road salt into a plastic bag.
3. Use a graduated cylinder to measure 10ml of water. Pour the water into a small container.
4. Carefully set the container inside the bag without tipping.
5. Do not spill the container as you zip the bag closed.
6. Tip over the container inside the sealed bag.
7. Make careful observations. Record your observations.

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

Data

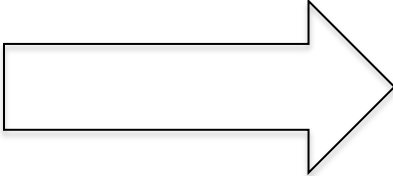
Before Mixing

| Substance | Color | Solubility in Water | State of Matter at Room Temperature | Other Observations |
|--------------------|-------|---------------------|-------------------------------------|--------------------|
| Sodium Bicarbonate | | | | |
| Calcium Chloride | | | | |
| Water | | | | |

After Mixing

| Substance | Color | Solubility in Water | State of Matter at Room Temperature | Other Observations |
|-----------|-------|---------------------|-------------------------------------|--------------------|
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Graphic Organizer

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Conclusions

1. What happens when you combine baking soda, road salt, and water? What is this process called and how do you know this process happened?
