SCIENCE BACKGROUND
Matter is anything that has mass and takes up space. Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature. Matter can be described and classified by its observable properties. Measurements of a variety of properties can be used to identify materials. Different properties are suited to different purposes.

I CAN STATEMENT
✓ I can plan and conduct an investigation to describe and classify different kinds of matter by their observable properties.
✓ I can make observations and measurements to identify materials based on their properties.

INGREDIENTS
- Salt
- Cooler
- Ice
- Water
- Digital Thermometer

INSTRUCTIONS
STEP 1: Fill the cooler half of the way with ice and cold water. Describe the ice water by using its observable properties. Using the digital thermometer, make measurements to identify the ice water based on its properties.
STEP 2: Add one cup of salt to the ice water, mix, and observe. Describe the ice water by using its observable properties. Using the digital thermometer, make measurements to identify the ice water based on its properties. Did the water get colder after the salt was added?

EXPLANATION
Once the salt is added, the temperature of the ice water drops. The salt lowers the freezing point of water. Basically, salt allows water to exist at a liquid below 32°F or 0°C.