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. Matter of any type can be subdivide into particles that are too small to see, but even then the matter still exists and can be detected by other means.

I CAN STATEMENT
✓ I can plan and conduct an investigation to describe and classify different kinds of matter by their observable properties.
✓ I can develop a model to describe how the matter is made of particles too small to be seen.

INGREDIENTS
• Styrofoam Cups
• Acetone
• Disposable Gloves
• Pie Pan
• Witch Hat

INSTRUCTIONS
STEP 1: Place the disposable gloves on your hands and then pour 2 cups of acetone into the pie pan.
STEP 2: Stack 6 Styrofoam cups and then place the witch hat on top.
STEP 3: Place the Styrofoam cups and witch hat, cups first, into the pie pan of acetone and observe. Describe and classify the Styrofoam cups, before and after placing them into the pie pan of acetone, by their observable properties. Develop a model to describe how the Styrofoam cups are made of particles too small to be seen.

EXPLANATION
The acetone is a solvent that easily dissolves the bonds between the polymers, which make up the Styrofoam cups.

NEXT GENERATION SCIENCE STANDARDS CONNECTION
2 – Structure and Properties of Matter I
Patterns
5 – Structure and Properties of Matter I
Scale, Proportion, and Quantity