

Example #1

## Corny Goo

### Purpose:

To make a mixture that behaves like quicksand.

### Hypothesis:

If we mix cornmeal and water, we will notice interesting changes.

### Materials:

water  
2 tablespoons cornmeal  
bowl  
spoon

### Procedure:

1. Put two tablespoons of cornmeal into the bowl.
2. Add a tablespoon of water to the cornmeal, stirring well with the spoon. Keep adding water a few drops at a time until the goo is thick and creamy.
3. Pick up the goo and roll it between your fingers. Stop rolling - what happens?

### What was the outcome? What did you observe?

When you roll the goo, it feels dry and hard, like a solid. When you stop rolling, it slowly spreads over your fingers, like a liquid. When you roll the cornmeal and water, the particles are forced together. When you stop rolling, the cornmeal and water separate again. Corny goo behaves like quicksand.

Example #2

Stemless Flowers

Purpose:

To find out how important a stem is to a flower.

Hypothesis:

A flower will not live as long without a stem.

Materials:

Two fresh flowers  
scissors

Procedure:

1. Use the scissors to cut the stem off one of the flowers.
2. Leave both flowers in a safe spot.
3. Check after an hour and notice the difference between them.

What happens after 2-3 days?

What was the outcome? What did you observe?

The flower without the stem dies faster. The stem of the flower holds water and draws it up from a vase to keep the petals moist. Without the stem, the flower has no way of getting water which it needs to live.

**Purpose:**

To find out if we can make an egg float in water.

**Hypothesis:**

We can make an egg float by adding something to the water.

**Materials:**

- 4 glasses of water
- salt
- sugar
- flour
- fresh egg

**Procedure:**

1. Fill each glass 3/4 full with water.
2. Dissolve a few tablespoons of salt into one glass.
3. Stir the same amount of sugar into the second glass and flour into the third glass.
4. Leave the last glass of water plain.

Guess which glass of liquid the egg will float in and try it.

**What was the outcome? What did you observe?**

The egg floated in salt water. Salt water is more dense (tightly packed together) than the egg and can hold the egg up. The other liquids aren't as dense so egg sinks.