

# Marshmallow Experiments



Ask your little scientist:

What do you think will happen?

What do you observe?

(Use as many senses as you can!)

What did happen?

Why?

## Materials:

Large marshmallows

Paper plate or paper towel

Large bowl or pot of water

Bonus: food coloring

## Directions:

Test 1: Microwave a couple of marshmallows for 20-60 seconds. Observe what happens. Let marshmallows cool then touch them.

Test 2: Add marshmallows to the pot of water. Observe if they sink or float. Press down on them to make them sink. Watch what happens when you let go.

Test 3: Put a few drops of food coloring into a cup of water. Drop in a marshmallow and let soak for a few minutes. Take it out of the water and cut it open. Observe what it looks like inside.

## Questions to ask:

Test 1: What happens to the marshmallows in the microwave? What happens when they come out? How do they feel?

Test 2: Do marshmallows sink or float? Can you make them sink? What are some other objects that float? What else sinks?

Test 3: Will the color be inside the marshmallow? What do we see? What else lets water soak in? What keeps it out? Consider comparing a plastic boat to a sponge.

## What they are learning:

How heat changes things both in size and shape and in texture. What floats and what sinks. The difference between porous items and non-porous.