Gummy Bear Experiment to Learn the Scientific Method

Objective:

Students will learn the steps of the scientific method by conducting an experiment to discover what happens when gummy bears are placed in different liquids.

Materials:

Gummy bears (at least 3)

3 clear cups or bowls

Water

Saltwater (1 cup of water mixed with 1 tablespoon of salt)

Vinegar

Measuring spoons and cups

Ruler or tape measure

Digital scale

Notebook and pencil



The Scientific Method Steps:

Ask a Question:

What will happen to gummy bears when placed in different liquids?

Make a Hypothesis: (What do you think will happen?) (grow, shrink, dissolve, change color)

Conduct the Experiment: Here's how we will test our hypothesis:

Label the Cups:

Cup 1: Water

Cup 2: Saltwater

Cup 3: Vinegar

Measure the Gummy Bears:

Use the ruler to measure the height and width of a gummy bear. Use the scale to measure the mass of a gummy bear.

Place the Gummy Bears in Liquids:

Put one gummy bear in each cup of liquid.

Let them sit for 12-24 hours (overnight).

After 12-24 hours, remove the gummy bears from the liquids and measure them again.

Write down what you see and co	ompare the new measurements with t	the original size.
Compare the size of each gumm the same?	y bear before and after soaking in th	ne liquids. Did they grow, shrink, or stay
Water	Salt Water	Vinegar
Initial Mass: g / mg	Initial Mass: g / mg	Initial Mass: g / mg
Final Mass: g / mg	Final Mass: g / mg	Final Mass: g / mg
Initial Length: mm / cm	Initial Length: mm / cm	Initial Length: mm / cm
Final Length: mm / cm	Final Length: mm / cm	Final Length: mm / cm
Conclusion:		
Look at your results and make a affect the gummy bears in the w		the experiment? Did the different liquids