

Make Your Own Snow Globes ✨

WHAT YOU'LL NEED:



TWO GLASS JARS
with lids



WATER



GLYCERIN



ALKA
SELTZER
TABLETS



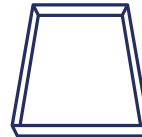
VEGETABLE
OIL



GLITTER



HOT
GLUE



TRAY
to put snow
globes on in case
of leaks or spills



BLUE FOOD
COLORING
optional



SMALL FIGURINES
TO PUT IN
YOUR GLOBE
optional

In this experiment, you will make two different kinds of snow globes. Which one looks more like snow?

DIRECTIONS:

OPTIONAL: Start by using the hot glue to attach some small animals or other figurines to the lids of both jars. The lids will be the bottom of your snow globe.

BUBBLING SNOW GLOBE

1. Fill one of the jars about $\frac{3}{4}$ of the way with vegetable oil.
2. Fill it the rest of the way up with water, leaving a little bit of space at the top. Dying the water blue first will help you to see the reaction!
3. Add some glitter - depending on the size of your jar, $\frac{1}{2}$ - 1 Tbsp. should be enough.
4. Break an Alka Seltzer tablet into the jar, quickly close the lid, and flip it over. What happens? Watch the water and oil bubble together and make the glitter "explode."
5. Why does the combination of Alka Seltzer, water, and oil create bubbles? Oil and water do not mix because oil is lighter, or less dense than water. When the Alka Seltzer reacts with the water, tiny bubbles of carbon dioxide are formed and travel to the top of the liquid.

TRADITIONAL SNOW GLOBE

1. Fill the other jar $\frac{1}{2}$ full with glycerin.
2. Fill it almost the rest of the way with water and stir gently to mix.
3. Add some glitter - depending on the size of your jar, $\frac{1}{2}$ - 1 Tbsp. should be enough.
4. Screw the lid on and shake the jar to watch it snow. How is this snow globe different from the bubbling one?

EXTENSION ACTIVITIES:

- Try testing the ratios of ingredients for each experiment. What happens if you use a 1:2 ratio of water to glycerin instead of 1:1?
- What happens to the bubbling snow globe if you do not use an Alka Seltzer tablet? Does it still produce the same effect?
- What happens if you put an Alka Seltzer tablet into the traditional snow globe? Does it produce the same effect?

We want to see your at home lab experiments!

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Thanks for exploring with us!