The Candle Rising Water Experiment

Hi Susannah! Today, we're going to learn about a fun science experiment called the **Candle Rising Water Experiment**. This experiment shows us how air pressure and water work together. Are you ready? Let's go step by step!

What Do You Need?

- A small candle (like a birthday candle)
- A shallow dish or bowl
- Some water
- A lighter or matches (make sure an adult helps you with this!)
- A glass or jar that can fit over the candle

Step 1: Prepare Your Setup

First, you're going to fill your shallow dish or bowl with some water. Just a little bit, about an inch or so, is enough. Then, place the candle in the center of the dish.

Step 2: Light the Candle

With an adult's help, carefully light the candle. Make sure to keep your hands and face away from the flame—safety first!

Step 3: Cover the Candle

Now, take your glass or jar and quickly place it upside down over the candle. Make sure the glass sits in the water and covers the candle completely.

Step 4: Watch What Happens!

After a few moments, you'll notice something amazing! The water starts to rise into the glass. But why does that happen? Let's find out!

Why Does the Water Rise?

When we light the candle, it heats up the air inside the glass. Warm air takes up more space, so some air escapes. When the flame goes out, the air cools down quickly. This creates a low-pressure area inside the glass. The higher air pressure outside the glass pushes down and forces the water up into the glass to fill that space!

Conclusion

This experiment is a great way to see how air pressure works and how it can move water. It’s a simple but exciting way to learn! Next time you have a candle at home, try this experiment with an adult’s help and see the magic of science!

Happy experimenting, Susannah!