



## Science & Literacy

### Activities

These activities can be completed at home and will help your children engage in scientific discussion.

#### *Homemade Lava Lamps*

Supplies:

- Vegetable oil
- Water
- Food coloring
- Alka Seltzer tablets

Color  $\frac{1}{2}$  cup of water with food coloring. Break the Alka Seltzer into a few pieces, and place them in a cup. Fill another glass about  $\frac{3}{4}$  full with vegetable oil. Then pour in the colored water, leaving room at the top. Add a piece of Alka Seltzer to the cup, and watch the lava flow!



#### *Dancing Raisins*

Supplies:

- Clear container
- Water
- Baking Soda
- Vinegar
- Raisins
- Spoon
- Optional: food coloring

Pour one cup of water into a clear container. Add 1 teaspoon of baking soda, stir. Sprinkle some raisins into the mixture. Watch what happens to the raisins (they will sink because they are denser than the water). Now add 1 Tablespoon of vinegar to the water. Watch what happens (the vinegar reacts to create bubbles). Observe what happens in the next few minutes. Eventually, the raisins will begin to “dance” as bubbles of carbon dioxide stick to the raisins and bring them to the surface. Once the bubbles release, the raisins fall back down again. Optional: add a few drops of food coloring and watch the bubbles mix the color in over time.



### Science Questions

Use the following open-ended questions to help your child engage with science. Encourage your child's curiosity about their world, and help them find answers to their questions!

- What do you think caused that?
- What patterns do you see?
- Why do you think that \_\_\_\_\_ happened?
- How can you explain \_\_\_\_\_?
- What's a different explanation for that?
- What evidence do you have?
- How will you know if \_\_\_\_\_?
- How would it be different if you changed \_\_\_\_\_?