

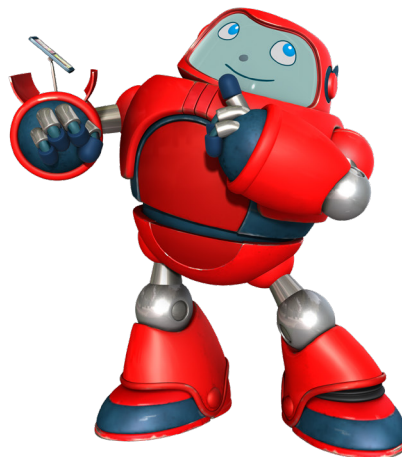
STEM ACTIVITY

TOWER OF BABEL

Total Time: 15 minutes
In Class Time: 10 minutes

You will need:

- Milk (approx. 1 pint/500mL)
- Food coloring/dye
- Dish soap (liquid)
- Cotton swabs
- Casserole dish or shallow bowl
- Dish towel (for easy cleanup)



STEP 1: Spread the dish towel on tabletop and place the dish on top of it. Fill the dish to fingertip depth with milk.

STEP 2: Gather the children. Add at least 5 drops of food coloring to the milk in one location, so they form one pool in the surface of the milk. Use multiple colors, if possible. TEACH: We learned from what happened at the Tower of Babel that when the people united, they were more powerful than when they were apart. They could do whatever they wanted.

STEP 3: Dip the tip of a cotton swab in dish soap. TEACH: God had told the people to spread out and fill the earth. They were disobedient, and stayed united in Babel. God did not want them to be united—and strong—in their disobedience, so he scattered them.

STEP 4: Touch the tip of the soapy swab into the pool of food coloring. The coloring will immediately scatter away from the soap.

STEP 5: Let the children repeat the experiment, making new pools of food coloring and reloading the swab with soap as necessary.

EXPLAINING THE SCIENCE:

Milk contains fat. Dish washing soap bonds to fat. So the tiny molecules of soap speed around to unite with the tiny fat molecules. It keeps going until the soap becomes evenly mixed in the milk. The food coloring just adds color to the milk so you can see the reaction between it and the soap.