

STEM ACTIVITY

Promise of a Child

Total Time: 10 minutes
In Class Time: 5 minutes

You will need:

You will need:

- Two measuring cups—with handles, plastic or glass
- String—about 2 ft (61 cm)
- Water
- Food coloring



STEP 1: Tie one end of the string to the handle of one of the measuring cups. Fill the cup about three quarters full with water, and add a few drops of food coloring. (Blue or green work best.)

STEP 2: Gather the children. TEACH: Chris, Joy, and Gizmo saw how all of God's promises in the Bible are connected. They are connected to Jesus. Let's take a look at a different kind of connection. (...Meaning adhesion/cohesion, not just the string.)

STEP 3: Dip as much of the string as possible into the colored water. Then put the wet end over in the second cup and pinch the string, holding it over the center of the cup's opening. Pull the string taut.

STEP 4: Slowly pour the colored water down the string and into the second cup. The first cup does not need to be directly above the second. The water runs down the string into the other cup.

EXPLAINING THE SCIENCE:

The water follows the string because water is both cohesive and adhesive. Cohesion means that particles of the same substance stick together. Adhesion means that particles of different substances stick together. When you wet the string, the water sticks because of adhesion. When you pour the water down the string, the new water sticks to the other water already in the string.