

# STEM ACTIVITY

## Paul and the Unknown God Part 2

Total Time: 15 minutes  
In Class Time: 10 minutes

You will need:

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- Resealable plastic bag
- Water
- Round pencils, freshly sharpened
- Pan



**STEP 1:** Fill the plastic bag about half-full with water.

**STEP 2:** Gather the children. TEACH: God wants people all over to seek after him and find him. And he is not far from us! But it takes faith, and that's not always easy. For example, would you believe I can poke a hole in this bag and not lose any water? What if I told you I could poke many holes in it and not lose any?

**STEP 3:** Poke the first pencil through the bag into the water. (Be sure to use round pencils!) Continue through the water and the other side of the bag. Be sure to poke all the way through, well past the pencil's point.

**STEP 4:** Poke more pencils through the bag the same way.

**STEP 5:** Discuss why the water stays in the bag.

## EXPLAINING THE SCIENCE:

The plastic bag is made of polymer strands, which are long chains of molecules. The pencil point pushes these microscopic strands aside to make a hole, and the stretched, flexible strands get pushed against the sides of the pencil by the water—which seals the hole and keeps the water in. You wouldn't think it could happen, but it does!