



Skip into Science

Day 2

Bible Point: Jesus loves me! Thank you, Jesus!

Bible Verse: "For the LORD is good; God's love endures forever, and his faithfulness to all generations." Psalm 100:5

Materials Needed: The following experiment may be completed in as large/small of a clear container as you wish. Maintain the proportion of peroxide, dish soap and yeast.

- Safety glasses
- Gloves
- Plastic soda bottles or clear carafe (1 bottle for each experiment performed)
- 3% or 6% Hydrogen peroxide (½ cup per experiment)
- Liquid dish soap (¼ cup per experiment)
- Food coloring (optional)
- Measuring cups
- Packets of dry yeast (1 for each experiment)
- Warm water
- Funnel
- Tarp or large pan to cover surface (for easy clean up)
- Bubbles (for closing prayer)

Set Up:

Place tarp or large pan on surface. Make sure the surface you are using can handle small spills of hydrogen peroxide.

Place on top of the tarp or in pan:

- glass carafe (or soda bottle)
- hydrogen peroxide
- food coloring (optional)
- measuring cups
- yeast packet(s)
- warm water
- funnel

What to do:

Introduce it!

- **Say:** Welcome everyone to Skip into Science and Story!
- To get started, read the Bible story about Jesus meeting the Woman at the Well using the Spark Story Bible found on page 420.
- **Ask:** Who did Jesus see at the well? (a Samaritan woman) When he saw her, what did Jesus do? (he talked with her and asked her for some water) Why was the Samaritan woman surprised that Jesus was talking with her? (most Jews (who Jesus was) didn't like (or talk) with people from Samaria). What did the woman learn about Jesus? (that he was the Messiah, he knew all about her and that Jesus loved her and that Jesus loves everyone).

Get to it!

Say: Today in our Bible story, we learned that Jesus loves everyone! His love overflows for all. What do you think the word "overflowing" means? Can you think of something that might overflow? When something overflows is that a good experience or a bad experience? (Jesus loves overflows for all of us – that's a great/good experience; a bathtub that overflows probably a bad experience).

Today we are going to do an experiment that shows an example of something overflowing. Just like Jesus' love overflows for all of us. Let's get to it!

1. Put on safety goggles and gloves
2. Into the clear bottle add:
 - a. $\frac{1}{2}$ cup hydrogen peroxide
 - b. $\frac{1}{4}$ cup dishwashing soap
 - c. few drops of food coloring – then swirl the bottle to mix.
If you want your foam to have strips of color in it, instead of all being one color, place a few drops of different food colors along the rim (or sides) of the bottle (do not mix together).
3. In a different measuring cup, mix about 1 tablespoon yeast with about 3 tablespoons warm water.
4. When you are ready, and you have the kids excited about the amount of love Jesus has to share with all of us, pour the yeast mixture into the bottle.
5. Stand back and watch it all overflow!

Everything that bubbles out of the container is safe to touch. The actual foam is just soap, water and food coloring. However, there may be hydrogen peroxide left in the container. An adult may

want to remove the container so that any remaining peroxide is not accidentally tipped over onto a child's hands/arms.

Debrief it!

- **Huddle Questions:** What made the liquid overflow? (a chemical reaction – the hydrogen has water and oxygen and the yeast (the catalyst) pulls out the oxygen while the dish soap catches the oxygen to make bigger bubbles). Is the foam still overflowing? Do you think Jesus' love will stop overflowing for us? (No! The love Jesus shares with each of us never ends – it overflows forever!)
- **Bible Buddy:** Sunny Sunfish is our Bible buddy today and one of over 30,000 types of fish. Today, Sunny reminds us that Jesus has enough love to share with more than 30,0000 people! In fact, Jesus shares his love with everyone – you and me! (Pass out Bible Buddy)
- **Practice the Bible Point**
Leader says: Jesus loves me!
Participants say: Thank you, Jesus!

Pray it out!

In a large circle, stand up, and say: Sunny sunfish, our Bible buddy for today, reminds us that Jesus loves each one of us! Today our prayer is going to include bubbles – just like bubbles that come out of fish that are in the water.

Start blowing bubbles (or have a helper do this while the leader reads the prayer).

Dear God: As these bubbles fly above, help us all to know your love. Bubbles may pop or fly away but we know your love will stay. Amen.