



Summer Science

Day 2

Bible Point: What God creates promises, we celebrate!

Bible Verse: God painted a rainbow in the sky!

Bible Point: What God Promises, We Celebrate!

Set up:

- Create your space as a lab
- Table outside

Materials:

- Spark Story Bible pg 20

Welcome:

Say: During our large group opening, we learned the story of Noah's Ark. Can you follow me as we make a rain storm: pat legs slowly at first, and then faster, and then stomp feet. Let's read the Bible story together. Once done, remind the kids that the animals and Noah's family were on the ark for 40 days and nights while it rained and flooded the earth.

Read the Bible story together from the Spark Story Bible found on page 20, Noah's Ark.

Ask: What is the best part of that story? What is the scariest part? What does the rainbow mean? How stinky do you think it would be to have been on the ark?

Say: The rainbow in the sky was God's promise to never flood the earth again. We can trust that promise!

Bible Point:

Leader: What God promises,

Everyone: We celebrate!

Experiment: Let's make a rainbow!

Say: We can't make a rainbow in the sky like God can, but we are going to make one with stackable liquids.

Supplies:

Honey with **red** and **blue** food coloring

Blue dish soap

Water with **green** food coloring

Olive oil

Rubbing alcohol with **red** food coloring

NOTE: The pouring of the colored liquids will probably need to be done by adults. Kids can mix the colors into the honey, water and rubbing alcohol.

Step 1. Honey

The first liquid of our rainbow is honey. Pour some honey into a cup and drop one red and one blue drop of food coloring. Then mix it up to see the liquid change to purple.

Step 2. Blue Dish Soap

Simply pour, very slowly, some dish soap on top of the honey.

Let the kids make predictions about what will happen when you pour the dish soap and watch in amazement as they see the liquids stack!

Step 3. Water

Add one drop of green food coloring to water and mix together. Before you pour, let the kids make a prediction again about what will happen when you pour the colored water on top of the other two layers.

Step 4. Olive Oil

Next is olive oil. Pour some on top of the water slowly. Once again, ask for predictions which are probably getting a little repetitive now.

Step 5. Rubbing Alcohol

The final layer for our liquid rainbow is rubbing alcohol. Pour some into a cup and add one drop of red food coloring. Mix very carefully and pour VERY SLOWLY onto the other layers.

Ask: What happened? Can you see the different layers? What did the different colors make?

Pray:

Ask kids what they want to pray for, especially concerning weather conditions (drought, flooding, mudslides, earthquakes, tornados, hurricanes).

Sample prayer:

Dear God,

Today we pray for [fill in the blank with kid answers].

We ask you to heal the world..

Amen.