



DAY 2 TO MARS AND BEYOND!

POWER LAUNCHER: *Go Beyond with Boldness!*

BECAUSE OF OUR FAITH, WE CAN BE BOLD AND STAND UP FOR GOD, FOR OTHERS AND FOR OURSELVES!



OPENING

Watch opening greeting by Commander Cade Baccus, Second in Command C'Lee, and EP3-20 on our website (www.leanderumc.org/vbs/)



STORY

Queen Esther Takes a Stand (Esther chapters 4-9)
Watch the skit on our website (www.leanderumc.org/vbs/)



CRAFT

MAKE CLAY BOTS

There should be one Clay Bot for each Voyager in your Jet Pack.

Say: Queen Esther was bold and brave. Just as God was faithful to and helped Queen Esther, God will be faithful to sustain us and give us boldness to go far beyond our fears and limitations!

As you are creating your clay bots, talk about:

- A time when you witnessed someone boldly standing up for God and others. (Adults – be sure to share too. You are all voyagers together!)
- Name ways that we can be bold.



STEP 1: Voyagers use small amounts of the four colors of clay to mold the Clay Bot into shape. (*Hint: Use small amounts of clay to keep it from becoming too top heavy.*)



STEP 2: Place the clay on top of the plastic motor.

STEP 3: Set the Clay Bots aside to dry. Have fun winding them up and watching them walk when they are dry.





SCIENCE

SLIME TIME

GATHER YOUR SUPPLIES:

- **From Jet Pack:** Liquid glue; glow in the dark paint; Borax
- **From home:** Water (warm and hot); any plastic container with a lid that will hold about 2 cups; a second smaller bowl; measuring cup, teaspoon, tablespoon

- ⇒ For extra help with this experiment watch this video: <https://www.youtube.com/watch?v=YK4H1OxAKvo>
- ⇒ Note that we are using glow in the dark paint which adds color and not food coloring.

This is an activity that your whole group will do together to make one slime ball.

OBSERVATION

Say: In our Bible story, Queen Esther had to “mix things up” to take a stand for her people; when she did, the results were amazing! In this experiment, we’ll see something amazing when we mix things up too.

Review Scientific Method (refer back to it on Day 1)

Ask:

- Have you heard of the four states of matter? Do you know what they are? (solid, liquid, gas, plasma)
- Do you think it’s possible for a substance to be in more than one state at a time, for instance be both in a liquid and solid state?

Show the children your supplies.

Ask:

- Have you seen materials like these before?
- How do we usually use them?

QUESTION & HYPOTHESIS

Ask: What do you think we’ll get when we mix all these up? Let’s test it!

EXPERIMENT:

In the plastic container mix the following items:

- 1 cup of warm water
- 5 oz of glue
- 4 tablespoons of glow in the dark paint

Stir until mixed

In a separate bowl pour $\frac{1}{2}$ cup of hot water and add 2 teaspoons of borax. Stir until dissolved.

Add 6 -10 teaspoons of the borax solution to the glue/paint solution and stir. *Hint: The more borax solution you add the thicker the slime will be.*

Give each voyager time to feel the slime and try to mold it into shapes. Take into a dark room and see it glow.

ANALYZE & APPLY

How Does it Work?

All fluids have a property known as viscosity, which is its resistance to flowing. Isaac Newton stated that the viscosity of a fluid can be changed only by altering its temperature. For example, honey flows easily (or has a low viscosity) when you warm it but has a higher viscosity than when it’s cold. A non-Newtonian fluid is one in which viscosity changes by means of force rather than heat—and that’s what we made today....slime. When we squeeze a handful of our slime, its viscosity increases and it acts like a solid...for a split second. When we release the pressure, water fills the spaces between molecules and the slime behaves like a liquid again. So our slime is kind of a liquid and a solid at the same time!



BIBLE TIE-IN!

Say: In today's Bible story, Queen Esther had to be very bold and "mix things up" by approaching the king when he hadn't asked for her. This was a risky move, but God was with her and used her boldness to change the king's heart and to save her people. When we are bold to stand up for God's ways and for others, we can help bring about great changes, too!

Think about and discuss ways you can be bold and stand up for God's ways and other in your life.



GAME

SNOWBALL TOSS

GATHER SUPPLIES FROM AROUND YOUR HOME:

- Pens or marker
- 48 pieces of paper (have two different colors or kinds of paper if possible – 24 of each kind)
- Rope, extension cord, pool noodle, or other long object

Set up: Lay out your long object to divide your play area into two sections; Have the Vector Verse handy.

Say: In our opening video today, Commander Cade led us on a mission to Planet Courage to build our supply of boldness. EP3-20 told us Planet Courage is a cold planet covered in snow and ice...so we are going to have a snowball fight.

LET'S PLAY!

- Divide your Voyages into two groups (adults can play too). Give each group one kind/color of paper
- Each group should work together to write one word of the Vector Verse on each paper.
- As you say "go", each group crumples their sheets of paper and throws them over the line to the other team's side. Throw any snowballs that land your side of the line back across the line. The goal is to keep your side free of snowballs.
- Signal the end of the game. The team with fewer snow balls "wins"
- Instruct each team to collect their color of snowballs. Unfold the papers and put the Vector Verse together in order.
- Play as many rounds as you like

BIBLE TIE-IN:

Ask:

- Have you ever been in a snowball fight? How was this similar? How was this different?
- What does our Vector Verse say about God's power?

Say:

- Let's say our Power Launcher together: Go Beyond in Boldness!
- We know God's power is at work in the universe. Our Vector Verse reminds us that God's power is also at work in all of us!



CLOSING

Close by saying the Vector Verse together several times:

Glory to God who is able to do far beyond all that we could ask or imagine by his power at work within us!
Ephesians 3:20:

Watch the benediction from Pastor Laura on our website (www.leanderumc.org/VBS)

