

Cloverbud 4-H Discovery Series

Intended Audience:

4-H Cloverbuds

Lesson Objectives:

Participants will learn:

- Intro STEM Activities

Time: 1 Hour

Equipment and supplies:

Ballon Rocket Supplies

(Flexible Drinking Straws,
Scissors

Tape, Balloon, Straws

3" square paper)

Flubber ingredients (1/2

cup of white glue, 1/4 cup

cool water, small bowl,

spoon, 1/3 cup warm water,

3/4 teaspoon, borax, food

coloring or drink mix)

Plastic Bags

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STEM

BACKGROUND

Introducing Science, Technology, Engineering, and Math 4-H activities. Lessons include water and air discovery.

WHAT TO DO

1.) The Wonder of Water, Making Flubber

Follow the Making Flubber, Science/Technology activity lesson instructions from *The Big Book of Cloverbud Activities*, pg. 28.

Help Cloverbuds to recognize the liquid to solid state of the water, feeling the moisture in the flubber.

2.) Balloon Rockets, *Rockets Away!* Pg. 12-14

1. Take balloon and inflate it to capacity, release and watch the balloon and its movements.

2. Cut off the rolled end of the balloon, and using 1 inch piece from a drinking straw insert 1/3 of the straw piece into the balloon and tape together. Inflate to capacity, then release and watch the balloon and its movements.

3. Take the long leftover piece of the drinking straw attach it with tape to the side of the 1 inch straw attached to balloon. Inflate and release, watching the balloon and its movements.

4. Using a 3" square of paper, cut it diagonally in half, then tape to the end of the straw to form a fin. Inflate the balloon and watch it's movements.

Help Cloverbuds to recognize how using the materials changed and directed the movements of the balloon.

Nozzle: increases and directs the flow of air

Stick: Helps to give upward movement with slight rotation

Fins: Help to stabilize

3) Science on A Stick

Cloverbuds were provided a take-home activity, Science on A

Stick.

SERVICE LEARNING

Cloverbuds were asked to bring canned food to build a canned food tower, donated to local food pantry.



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SOURCES

“Making Flubber, The Wonder of Water, The Big Book of Cloverbud Activities, Ohio 4-H, 2016

“Experiment 6-9”, Rockets Always, Ohio 4-H, 2016

“Science on A Stick”, Ohio 4-H, <https://ohio4h.org/statewide-programs/4-h-science/science-stick>