



**DISCOVERY
DOMAIN**

KITS



4 total kits for our group

1. Spies

2. Clouds

3. Oil Spill/Lava Lamp (Density)

4. Rockets





MONDAY

Had to be flexible since we didn't have mason jars

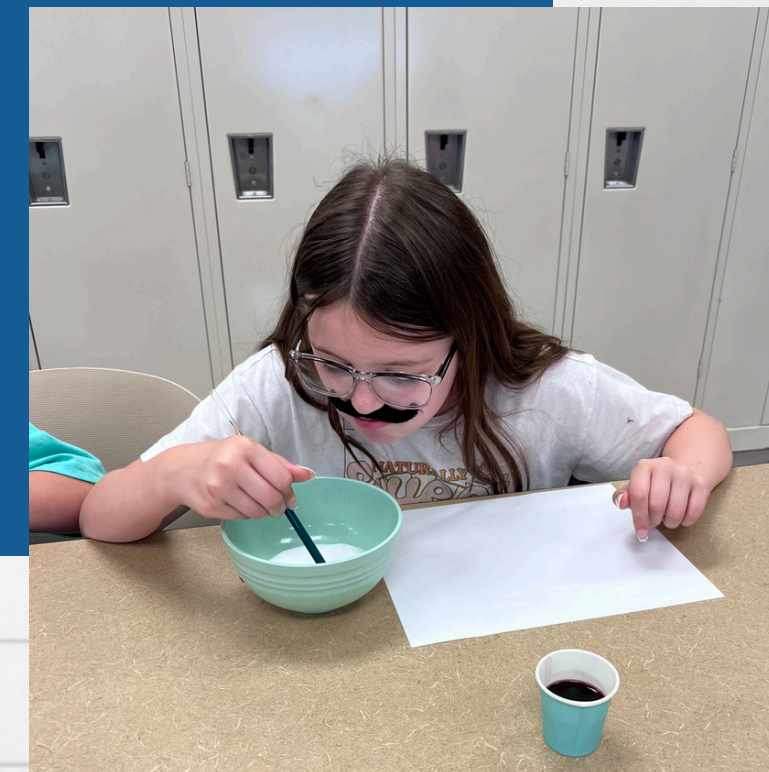
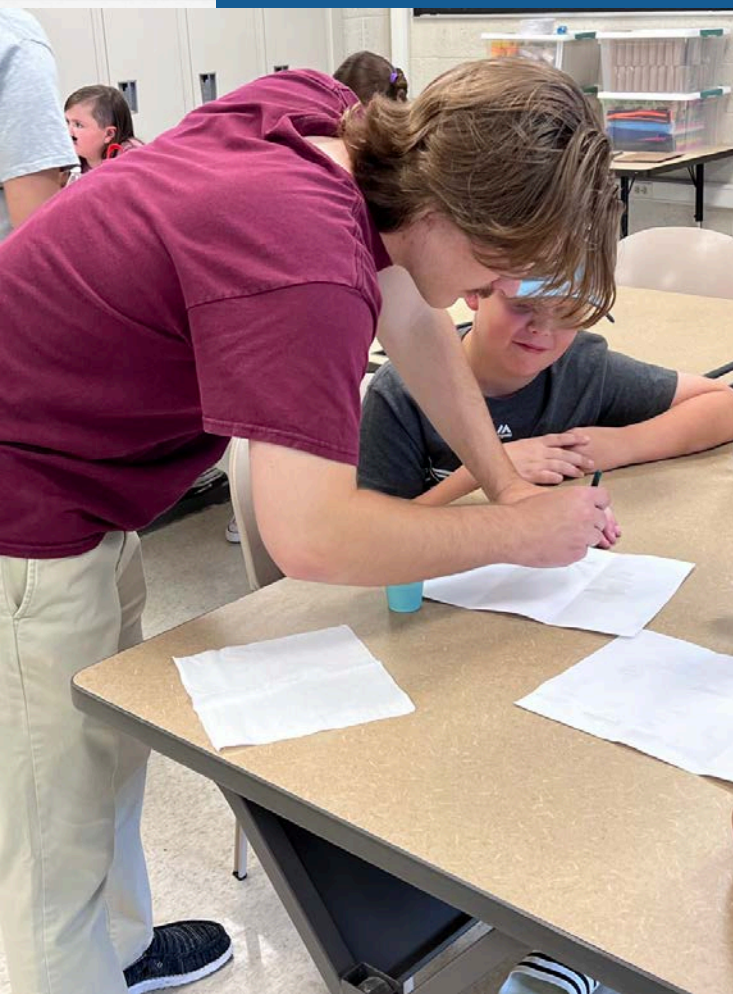
Had planned on presenting our Clouds kit

Instead, we taught our Spies kit ("Spy Kids")

Started the lesson with an introductory Canva presentation and read-aloud

The book we read was "Scarlet Stocking Spy"

Students created secret messages and ciphers using baking soda and water and uncovered the message with grape juice



TUESDAY

We presented our Clouds kit (“Cloudy with a Chance of Fun”)

Focused on stratus, cirrus, and cumulus clouds

Started lesson with read-aloud over cloud shapes, formations and trivia and an introduction

Students created the 3 main types of clouds using cotton balls

Students did the cloud in the jar experiment with mason jars, ice, hot water, and hairspray





WEDNESDAY

Kit of the day was the oil spill/lava lamp kit (density kit)

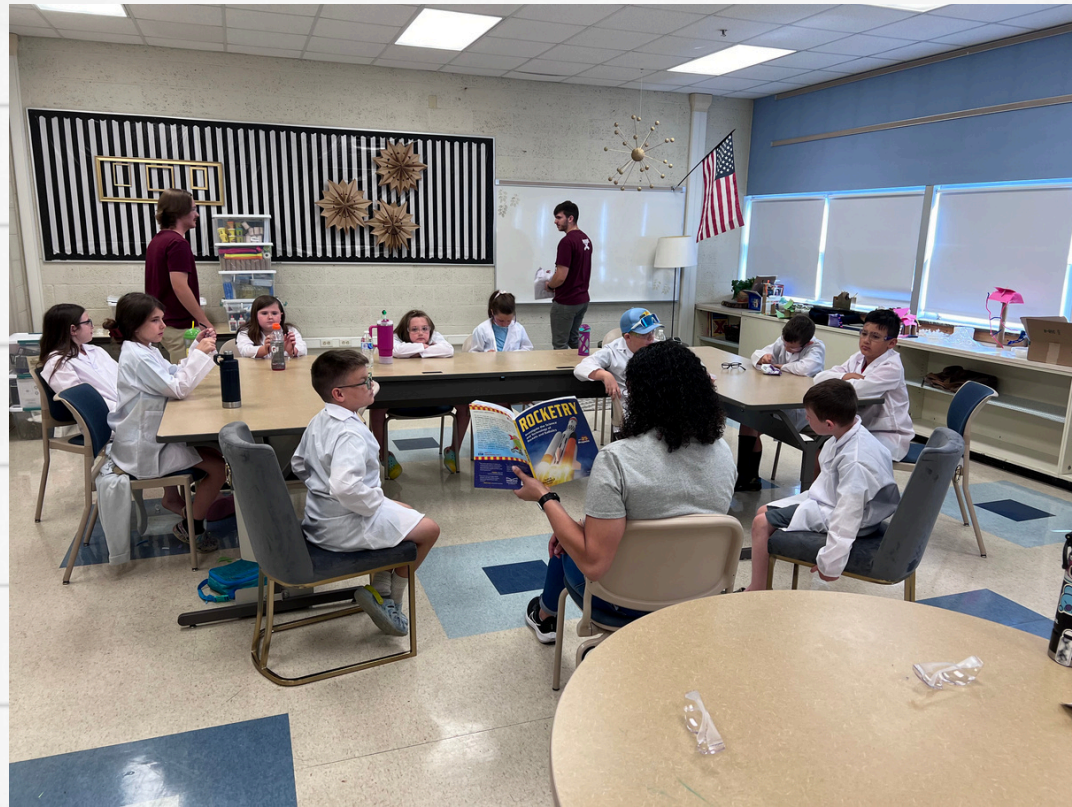
Started the lesson with an introduction then went to lunch

Did a read-aloud then started to get the students the materials for their oil spill

Students had to experiment with cleaning an oil spill and which tools were the best to use

Students then made their lava lamps using mason jars, water, vegetable oil, food coloring, and Alka-seltzer tablets





THURSDAY

Rocket kit ("To Lisbon and Beyond")

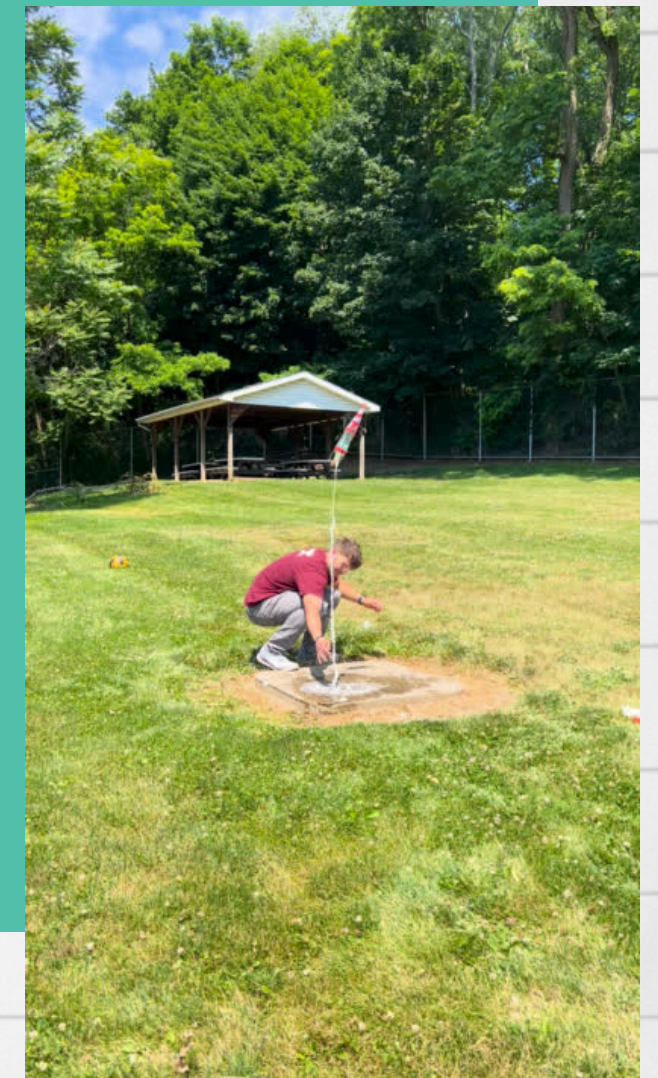


Students were introduced to the kit and read a couple of pages about the structural system of a rocket

Students began the building phase of their rockets

Students then launched their rockets

Ran into some obstacles during the launches (rockets falling down, too much vinegar in bottle, leaky bottles, caps screwed on too tight)



Be adaptive and flexible

It's okay to let kids fail at first with projects and experiments

Overestimate time with STEM projects

Have fun with the students

Janitors and secretaries know the most

Lean on those who have been there before



TAKE AWAYS

OVERALL



This was a great experience for us as a group and as individuals. It was fun being in the classroom and having fun with the students. We highly recommend this opportunity to any undergrad in the Walsh education program.



The background is a light grey, textured paper with various watercolor-style illustrations. There are orange and pinkish-red shapes at the top, a blue squiggle at the top right, a yellow shape at the top right, a blue shape on the left, and orange and pinkish-red shapes at the bottom. There are also some orange lines on the right side and a blue spiral at the bottom right.

STEM KIT PROJECT

MARIE HAMPSHIRE, KY-MANI NASEER,
& BRITTANY BOOTH-WRIGHT

CLEAN UP AND RECYCLE

GRADES: 2ND & 3RD

The students will be making a claw out of the materials given as a fun interactive way to pick up and sort the trash from the recycling and placing it in the correct bins.

Objective: Upon completion of the Clean Up and Recycle lesson plan the students will have an understanding on what can be recycled and how to recycle by placing the items given into the correct labeled trash can 9 out of 10 times without placing into the opposite trash can.

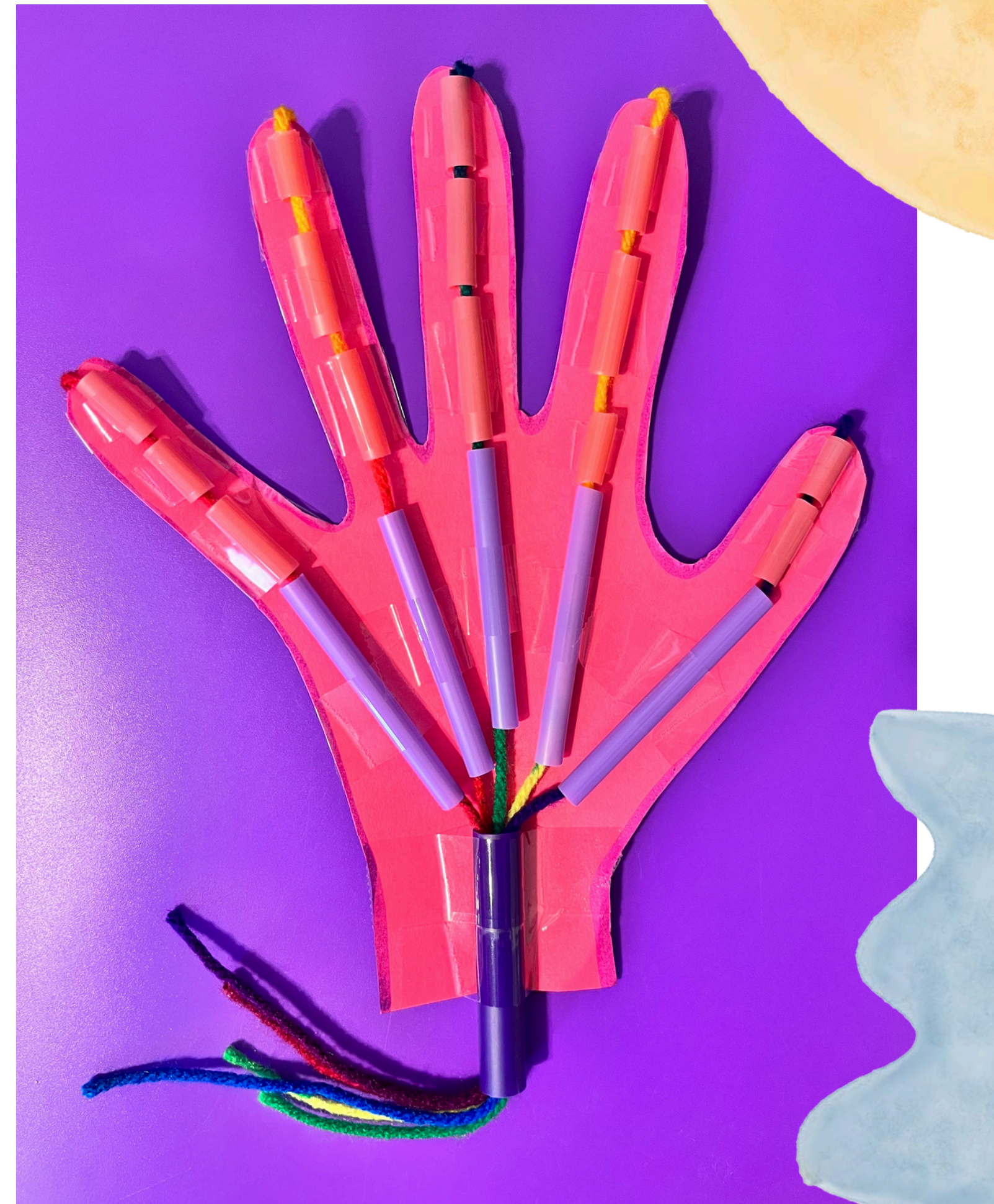


ROBOTIC HAND

GRADES: 4TH & 5TH

Students will be making an interactive and engaging model of a hand with the materials given. They will be learning the different parts of the hand and will be able to demonstrate and observe hand movement upon completing the project correctly. They will also be shown a model of a hand with muscles, veins, and bones to accurately show the different parts.

Objective: Upon completion of the Hand Movements lesson plan the students will be able to properly demonstrate different amounts of energy used in the hand by how far the yarn is pulled.



DEMONSTRATING ROBOTIC HAND

- **Trace hand from tips of fingers to the bottom of the wrist and cut out traced hand, carefully.**
- **Measure and cut 5 strands of yarn the length from tips of fingers to the middle of forearm.**
- **With small piece of tape, tape one end of the string to the back side of each tip of finger to be pulled forward at a later time to feed through straws.**
- **Cut the large smoothie straw to the size of wrist and tape it down to colored paper, cut out of the hand.**
- **Cut small drinking straws to fit “joints” in palm of hand and tape it down to colored paper, cut out of the hand.**
- **Continue to cut drinking straws to fit the size of individual “joints” in fingers, leaving room for an imaginary knuckle in between each drinking straw to allow fingers of hand to move when strings are later pulled. Tape each of these “joints” down to the colored paper, cut out of the hand.**
- **There should be a total of 1 large smoothie straw for the wrist, 5 palm drinking straws, 3 small drinking straws for each finger, and 2 small drinking straws for the thumb.**
- **Once all straws are taped to the cut out of the hand, you will then fold the reverse taped strands of yarn to the front of the hand. Each strand will then be fed through each individual straw for that finger, into the palm straw and finally all yarn strands will come together within the large smoothie wrist straw.**
- **You Did It! Pull the strands of yarn and watch as your hand now moves!**