

WEEK 2: "Hola Casita"

NEWSLETTER

July 5th, 2022



Greetings I AM STEM Family,

We are proud to announce that the second week of virtual I AM STEM was a STEMulating success. Scholars successfully built stable structures and engineered circuits in their *casitas*. We had so much fun and look forward to the musical projects in store for this week.

Important Dates:

Tuesday: Xylophone - Wednesday: Maracas

Thursday: Flute - Friday: Banjo & Bongos

Picture Day: Friday, July 8, 2022





SCHOLARS OF THE WEEK



Kindergarten & 1st Grade

Scholar Curren Kennedy

Scholar Curren comes to class everyday ready with a smile and an eagerness to learn and participate in class. He doesn't mind expressing his thoughts and ideas and loves to share fun things about his family!

2nd Grade & 3rd Grade

Scholar Mariah Galloway

Scholar Mariah is being recognized because of her active engagement in the lessons and willingness to ask for help. She utilizes the chat box and unmutes herself when appropriate. Job well done!

4th Grade & 5th Grade

Scholar Lailah James

Scholar Lailah is always ready to engage and contribute wise ideas in every class activity. She is phenomenal at finding innovative ways to enhance her STEM experiments and assist her peers.

Middle School Girls

Scholar Venecia Johnson

Scholar Venecia does not hesitate to participate in the lessons. Her input adds value and enhances class discussion. We are so grateful to have her in the middle school girls group.

Middle School Boys

Scholar Kal Gallegos

Scholar Kal is a very intelligent and well behaved scholar. He is a leader attending Emmanuel AME's site and a solid contributor to our middle school boys group. Kal excelled in Newton's Laws, forces, and vectors and helped his classmates by illustrating examples of each through game based learning. Kal has a great understanding of physics and the natural sciences!

High School

Scholar Tristyn Myrick

Scholar Tristyn is a STEM-Gem! She is passionate about learning and approaches exploration through STEM with vigor. Tasha's intellect is an asset to in-class discussions, as she welcomes each day with enthusiasm. Her reasoning and critical thinking skills are evident in how she designs models and analyzes outcomes. She is well on her way to becoming a champion for women in STEM!



**High School
Nicholas Collins**



**Middle School Boys
Desmond Lee**



**High School Math
Po'et Muhammad**



**Middle School Boys
Justice Ejike**



**Middle School Girls
Christine Mitchell**



**Grades 4-5
Jewel Wilson**



**Grades K-1
Briian Fife**



**Grades 2-3
Brandice Reid**



MEET THE VIRTUAL STEM CAMP TEACHERS



High School
Nicholas Collins



Middle School Boys
Desmond Lee



High School Math
Po'et Muhammad



Middle School Boys
Justice Ejike



Middle School Girls
Christine Mitchell



Grades 4-5
Jewel Wilson



Grades K-1
Briian Fife



Grades 2-3
Brandice Reid



MEET THE VIRTUAL STEM CAMP TEACHERS

Nadine Ebri
Digital Storytelling



Mary Cuffy
Learning with Lola



Aiyana Graham
Exercise Science/Financial
Literacy



Anastasia James
Spanish



Fantastical & Magical

Tynslei Spence
Black & Latinx History/STEM
and Ancient Africa



Christina Scott
College and Careers



**MEET THE
ELECTIVE
TEACHERS**



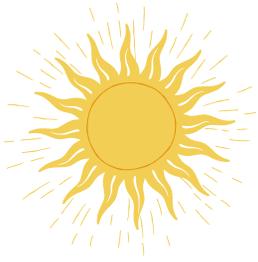


TOOTHPICK TOWER

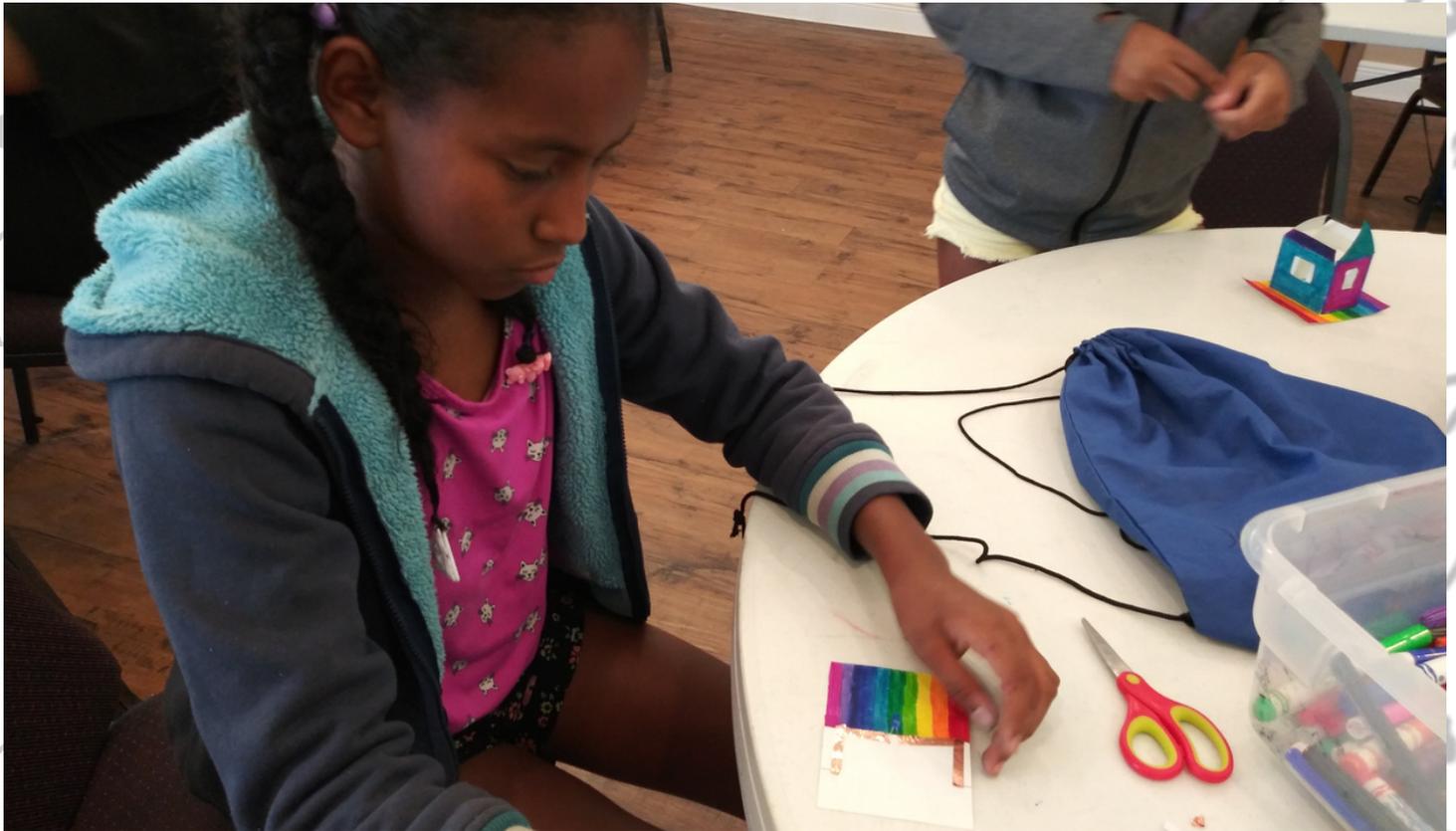


Scholars used Dots candies and toothpicks to build tall and strong structures. They tried building cubed structures first, but realized that many were unstable and fell over easily once objects were placed on top. Scholars began discussing geometric shapes and how building structures with triangles was a better option. They learned that triangles are the strongest shape because they maintain a stiff and stable shape with a supportive base.

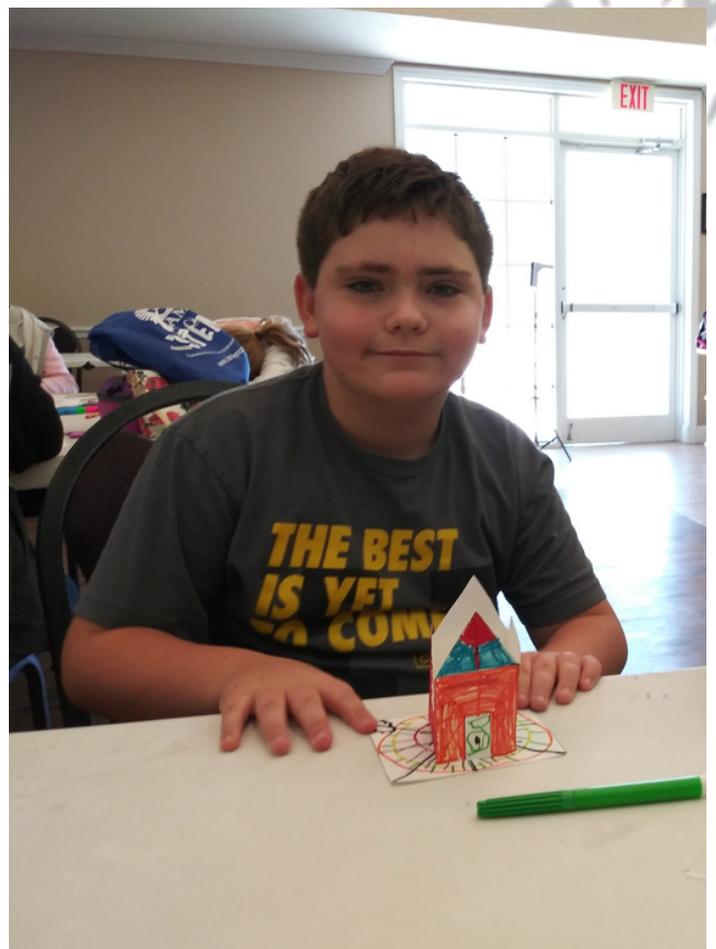




BUILD A HOUSE

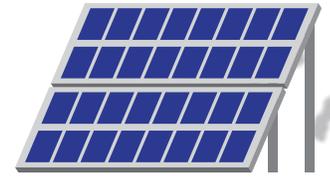


Scholars built their very own houses from cardstock cutouts. They had the choice of constructing a one story house, two story house, or a modern house. They spent time decorating their design to feel like home.

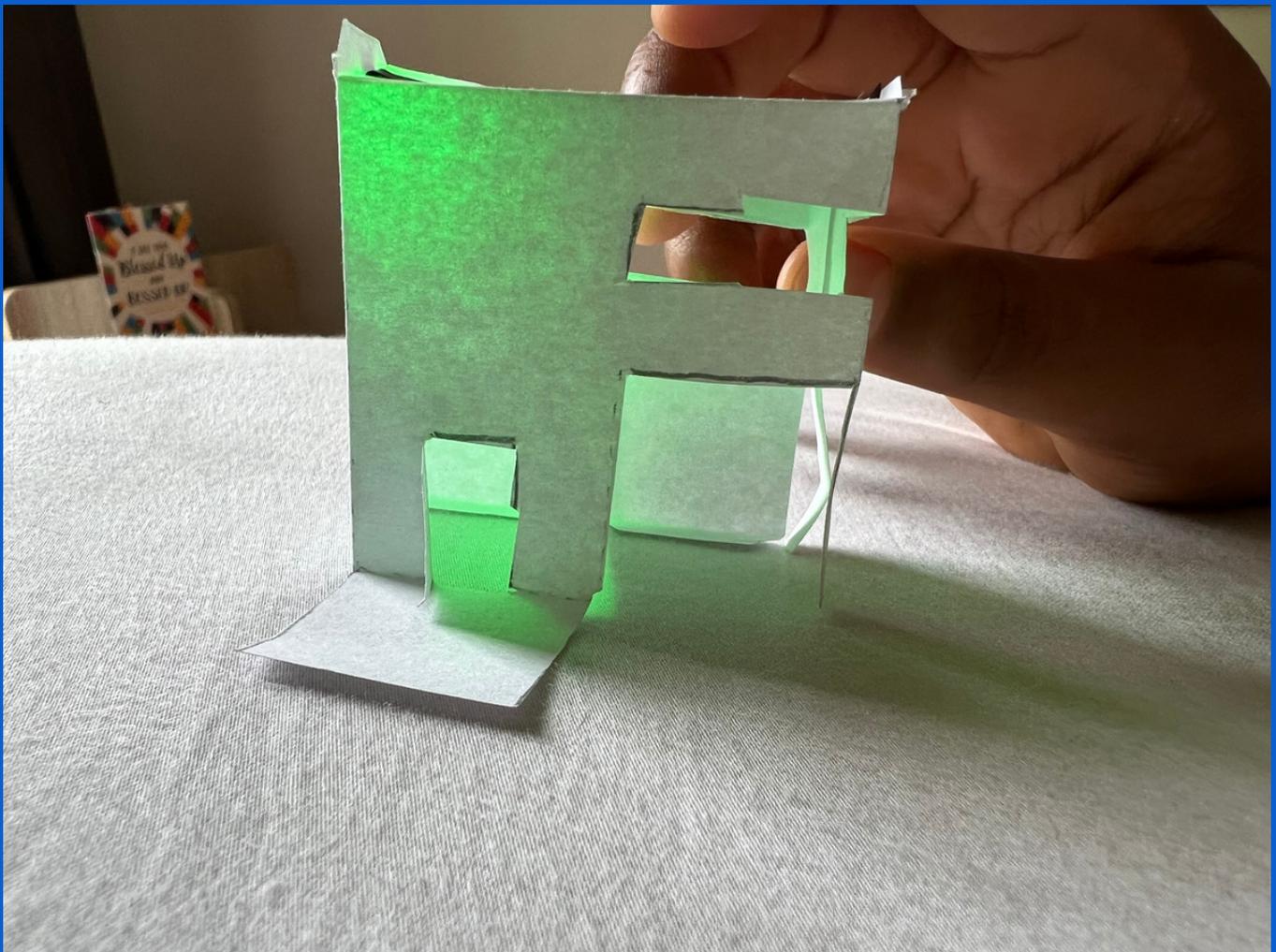




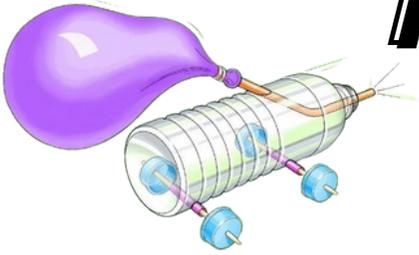
LIGHTING UP A HOUSE



Scholars lined the inner part of the roof with copper tape to conduct electricity. They attached an LED bulb to the copper tape to light up the inside of their home, and solar panel wires to the copper tape on the outside of the roof. Scholars were taught about clean & renewable energy sources and the benefits of choosing those over fossil fuels. They also learned that solar energy can be converted to electrical energy.

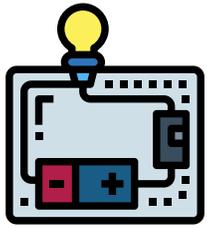


ALTERNATIVE ENERGY CAR



Scholars engineered a moving car made from a water bottle, bottle caps, skewers, a few straws, and a balloon. They understood that the bottle caps, skewers, and straws formed a simple machine wheel and axle. Scholars found that air from the balloon provided enough force to push their car forward. They observed that the bottle caps had rigid edges that increased friction between the bottle and the surface like car tires on the road. Vroom vroom!!





PAPER CIRCUITS

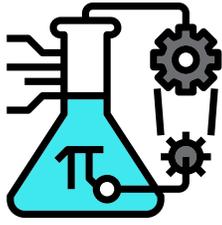


Scholars designed lithium battery powered copper tape circuits on paper. Their closed circuits delivered electricity to one or more LED lights on the copper tape.

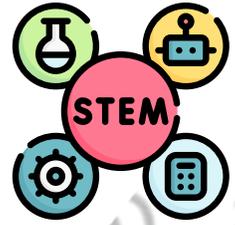


Scholars had the option of making their paper circuits light up a cupcake, balloon, car, unicorn or whatever idea came to mind. They learned that light is a wave of energy that can move at various frequencies.





SUPPLY LIST & STEM RESOURCE CARDS



Supplies

Provided by I AM STEM

- Rubber bands
- Scissors
- 2 Plastic eggs
- 8 Straws
- Ruler
- Jumbo popsicles
- Loom bands
- Balloons

Provided by Site

- Markers and Crayons
- 4 plastic spoons
- Rice or dry beans
- Tape
- Construction paper
- Glue
- Stickers
- Fun duct tape
- Yarn

Donations from Parents

- 5 Paper towel or toilet paper rolls
- Peanut butter or Any Round Lid
- Aluminum Cans/Empty canisters



Click for More Information

Materials:

- 5 Cardboard tubes (paper towel rolls and toilet paper rolls)
- 10 Rubber bands
- Yarn
- Scissors
- Markers and Crayons

Instructions:

1. Cut the cardboard tubes into 5 different lengths with 1 inch difference between each tube.
2. Start with your two smallest tubes and use a rubber band to fasten them together.
3. Put the rubber band around one tube, twist it (so it makes a figure 8) and put the other loop around the next tube.
4. Hold them in place and put another rubber band around the two tubes the same way.
5. Then, add the next biggest tube using the same method with the rubber bands.
6. Keep going until you've added all of your tubes
7. Next, use your yarn, ribbon, or embroidery floss to weave in and out of your xylophone tubes for decoration.



Click for More Information

Materials:

- 8 Straws
- Scissors
- Rulers
- Tape

Instructions:

1. Use scissors to cut each straw into 8 different sizes with one inch difference between each length
2. Use a ruler to measure and cut your straws to the right size.
3. Place the straws in order from tallest to shortest.
4. Make sure all 8 straws are even at the top.
5. Carefully tape the straws together on both sides.
6. Blow into the straws and see what happens!



Click for More Information

Materials:

- 2 Plastic egg
- 4 plastic spoons
- Rice or dry beans
- Tape
- Markers
- Crayons
- Stickers

Instructions:

1. Fill your plastic egg halfway with rice or dry beans.
2. Put your egg between your 2 spoons and tape at the top and bottom.
3. Decorate your maracas with a theme or similar design.
4. Shake the maracas. Does a rice maraca sound different from the bean maraca?



Click for More Information

Materials:

- Balloons
- Rubber bands
- 2 Aluminum Cans/empty canisters
- Construction paper
- Glue
- Decoration
- Fun duct tape

Instructions:

1. Cut the necks of the two balloons
2. Stretch the balloons over the top of the two canisters
3. Use the duct tape to tape the balloons around the canister and seal it in place
4. Experiment by tapping the bongos!
5. Wrap around the aluminum cans/empty canisters



Click for More Information

Materials:

- Jumbo popsicles
- Loom bands
- Scissors
- Round tops (Peanut butter or mason jar lids)

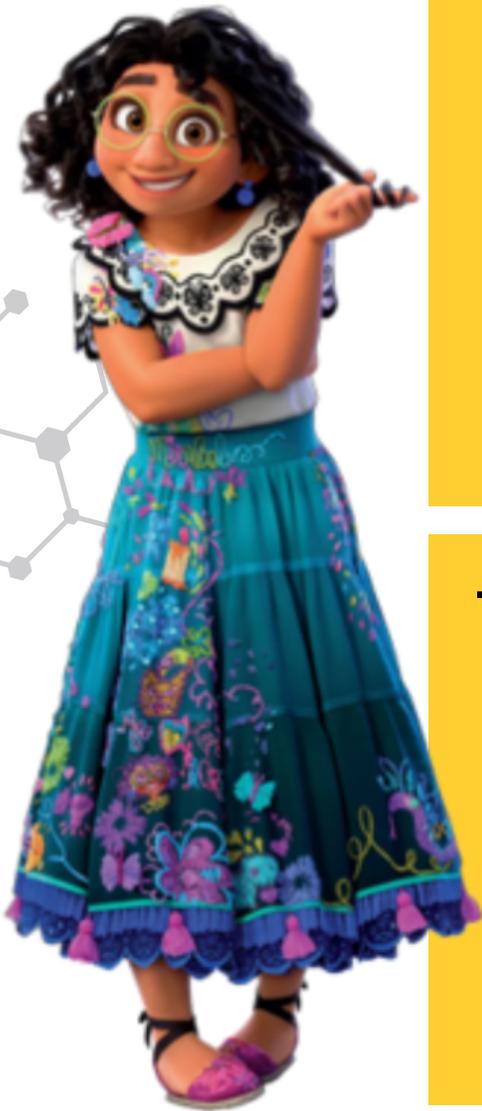
Instructions:

1. Put rubber bands around the mason jar or peanut butter jar lid
2. Tape the rubber bands in place
3. Decorate your popsicle stick.
4. Cut the round end off one side of the popsicle stick.
5. Tape the popsicle stick behind the rubber bands in the back of the banjo.



PICTURE DAY

Picture Day will be held on Friday, July 8, 2022 during classes.



Please wear your I AM STEM "Encanto: Good & Necessary Trouble" T-shirt for picture day.

These photos will be used for the I AM STEM Yearbook.

THANK YOU.



@i_am_stem



@I AM STEM camp