

Science, Technology, Engineering, & Mathematics (STEM) Day is Monday, November 9

Wade Park holds every scholar to the highest academic expectations to ensure their success. Our educators are focused on meeting the diverse needs of all scholars. Our ultimate goal in science instruction is to immerse scholars in reading, writing, and arguing like real scientists and engineers, in classrooms alive with inquiry and discovery. All scholars are required to participate in our monthly S.T.E.M Day. See suggested activities below and pick one. We are asking families to video and/or photograph the scholars participating in the STEM project and then send pictures to Ms. Powers (216-681-5011 or sondra.powers@clevelandmetroschools.org).

K-2 | Make a rain cloud in a jar:

Materials: A clear jar, water, shaving cream, food coloring

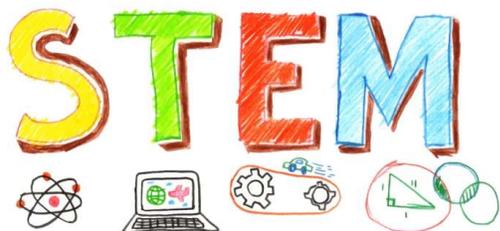
Instructions:

- 1) Mix a few drops of food coloring into some water and set it aside. It will be used as "rain"
- 2) Fill the glass jar about 3/4 of the way with cool water
- 3) Fill the top of the glass jar with shaving cream



- 4) Take the "rain" you created and drop it onto the shaving cream. Watch as it drips from the shaving cream and into the water as rain drips out of a cloud and to the ground. Write down what you observe from this reaction.





3rd-5th | The Tower Challenge

Materials: paper products, tape, ruler, science textbook

Instructions:

- 1)** Collect any paper materials around the house that you can recycle and use for this activity. It can be anything from notebook paper, printer paper, lunch bags, an empty cereal box, anything you can find.
- 2)** Build a tower that measures 5 inches in width, 5 inches in length and at least 10 inches in height.
- 3)** The challenge comes when you test the strength of your tower. When you have built the tower to the measurement requirements you will place your science book on top to test the strength (if you don't have your science book you can use your reading or math book). If it holds up you can continue to add weight. If it breaks you can figure out the weak points and build the tower back up again.

6th-8th | Building Bridges Challenge

Materials: paper products, tape, rubber bands, ruler, textbooks

Instructions:

- 1)** Collect any paper materials around the house that you can recycle and use for this activity. It can be anything from notebook paper, printer paper, lunch bags, an empty cereal box, anything you can find.
- 2)** Build a bridge using your paper materials, tape and rubber bands. It can be built using two items that are similar height at each end such as two chairs or a table. The bridge must be at least 1 foot in distance.
- 3)** The challenge will come with testing the strength of the bridge. It must be able to hold up the weight of one of your textbooks (science, reading or math). If it successfully holds up the weight of the textbook continue to add weight (make sure to take a picture after every item it successfully holds up. If it fails on the first try you can identify the weaknesses in the bridge and make the necessary changes, then test again.