

# Graysville Elementary School - Title I presents:

## Family S.T.E.M. Challenge at Home March 23 - 27, 2020

### Challenge 2 - The Longest Chain



#### Materials Needed:

- 1 piece of construction paper
- Tape
- Ruler or Measuring Tape
- Scissors

#### Instructions:

1. Brainstorm ideas on how to cut your paper to create the links
2. Using only 1 sheet of paper, cut links to and tape them together to form a chain
3. Once all of the links have been attached, lay out your chain and measure it using standard measurement
4. Record your finding in this [Google Form](#) (click the link)
  - a. K-2nd - count the links in the chain
  - b. 3rd-5th - convert your measurement from standard to metric
5. What changes could you make to your links to increase the chain length? For example:
  - a. Cut the paper in a different direction
  - b. Cut smaller strips
6. Take a photo of your student with their chain and send it to [mwatson.ges@catoosa.k12.ga.us](mailto:mwatson.ges@catoosa.k12.ga.us)

#### S.T.E.M. Take Away

The Longest Chain challenge replicates the Scientific Method: ask a question, research your topic, form a hypothesis, test your hypothesis, analyze your data, and draw conclusions.

#### Standards Applied:

- **K-2nd:** MGSE1.NBT.1 Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral. Count individual links
- **3rd-5th:** S4P3.b. Construct an argument to support the claim that gravitational force affects the motion of an object. MGSE4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec.