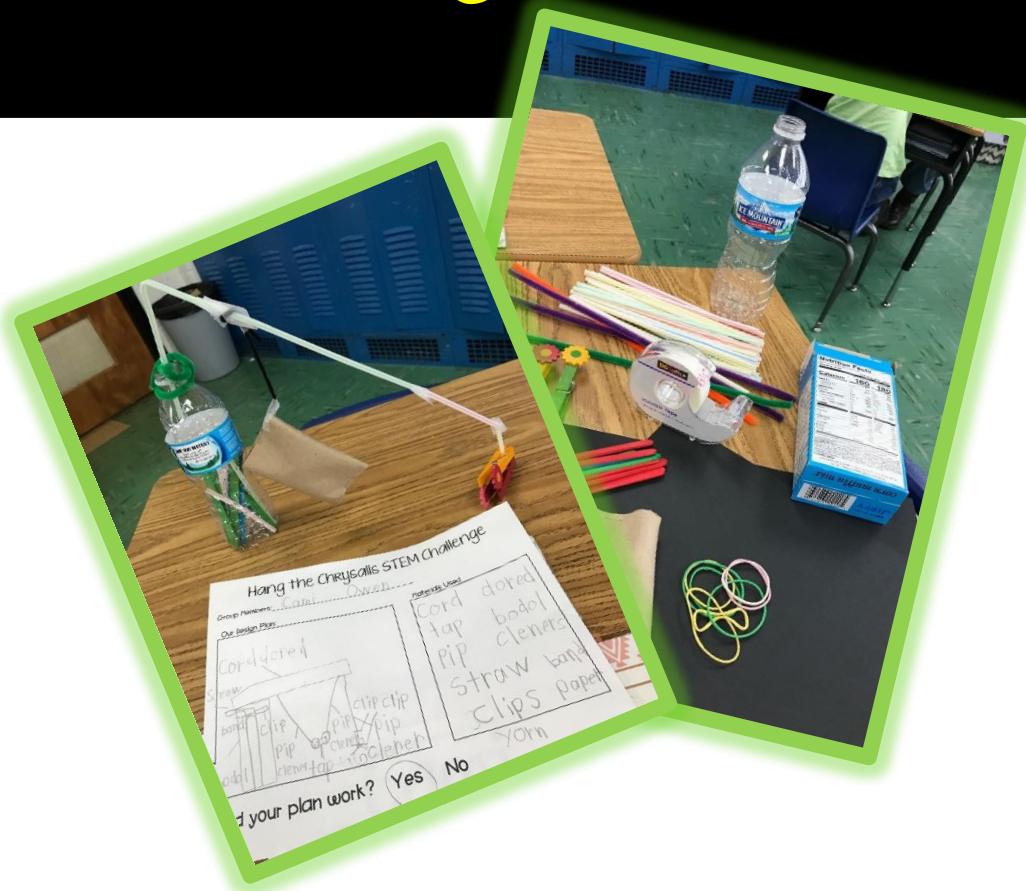


# Butterfly STEM Challenge

A butterfly themed STEM challenge that engages students in collaborating, designing, and engineering!

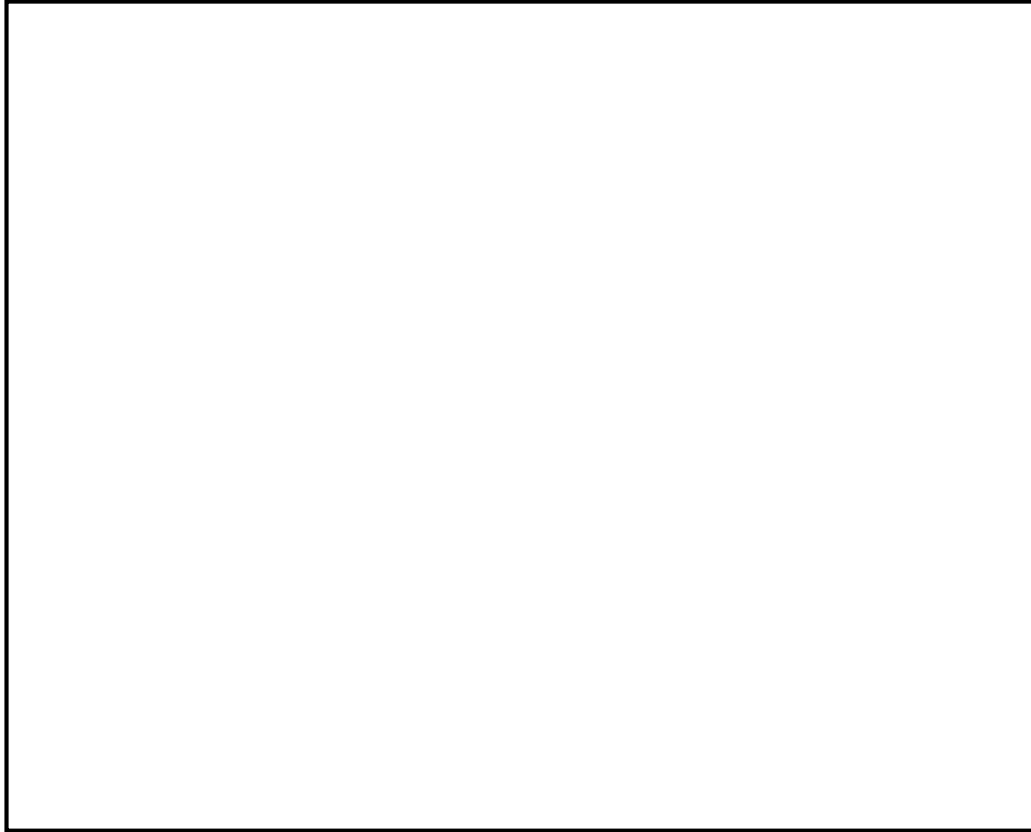
# Can you hang the chrysalis?



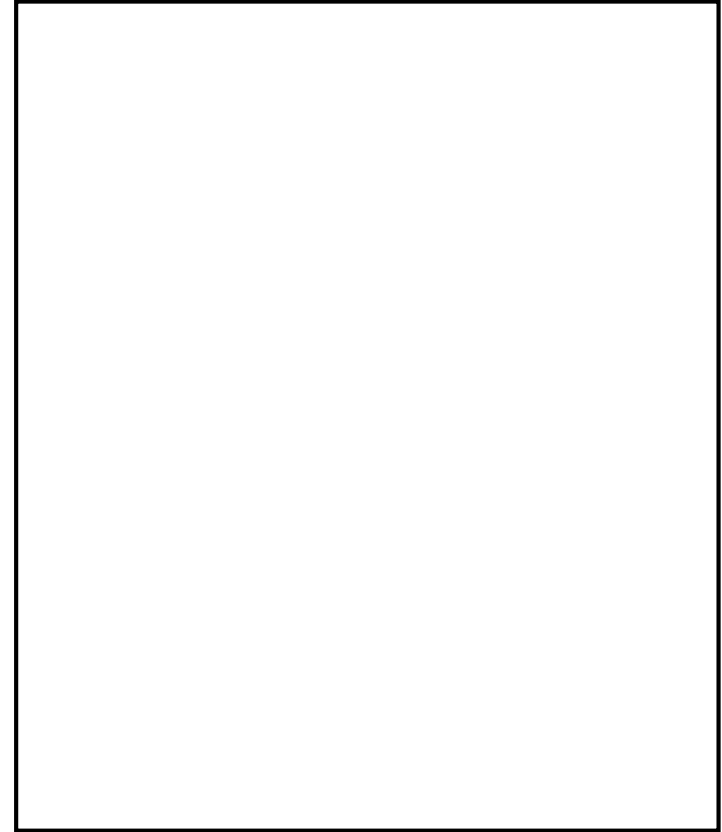
# Hang the Chrysalis STEM Challenge

Group Members: \_\_\_\_\_

Our Design Plan:



Materials Used:



Did your plan work?    Yes    No

The goal of this STEM challenge is to hang a butterfly chrysalis from a structure the students design and engineer. They will use a toilet paper roll as the butterfly chrysalis. You can insert a paper butterfly that can emerge once the challenge is complete!

Teacher Prep -

1 toilet paper roll to use as a chrysalis for each group of students

1 paper butterfly per group to insert inside (my students drew and cut out their own butterfly designs)

Items for them to use in their design may include, but aren't limited to:

Tape

Straws

Cups/water bottles

Construction paper

Paper clips

Clothes pins

Modeling clay

Unifix cubes

Paper towel rolls

Popsicle sticks

Cardboard boxes (cereal box, muffin mix, etc.)

Pipe cleaners

# The STEM Engineering Challenge:

Your group will be given 1 butterfly chrysalis (toilet paper roll) to hang from a structure you design and engineer.

Challenge Rules:

- \*Work as a TEAM!
- \*Use only the supplies given
- \*Draw out your design plan before starting to build
- \*The chrysalis must hang from the structure and not touch the table

Can you build a sturdy structure to hang this fragile chrysalis from? It is very important for the caterpillar inside to transform into a beautiful butterfly! Good Luck!

If you succeed in the challenge, reach inside your chrysalis and a butterfly will emerge!

# Examples of this STEM project

