

EDMUND W. GORDON



**Rising Grade 6 Science 2025
Summer Homework Packet**



BROOKLYN LAB
CHARTER SCHOOL

Name:

Class Section:



Dear Sixth Grade Students,

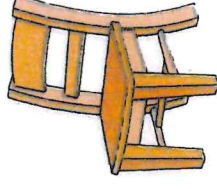
Welcome to Sixth Grade Science! This year, you will be studying all about the amazing world of science. We will study topics such as matter, energy, water, ecosystems, and have many STEM challenges and labs.

To get your mind ready for science, we gave you a Paper Chair STEM challenge that can be done with few resources. Follow the directions and answer the questions on the next page. **This assignment AND the paper chair you designed will be collected during your Science class within the first week of school!**

We are so excited to meet you and teach you all about science. Have a great summer!

Paper Chair STEM Challenge

Overview: Engineers are professionals who invent, design, analyze, build and test machines, complex systems, structures, gadgets and materials to create the objects we use each and every day. For this challenge, you will create a chair that can hold a small stuffed animal without collapsing or breaking. The challenge is found below along with the questions to answer after. When you hand this project page in, you may bring the chair or a picture of the chair so we can see how you constructed it.



Question: Can you create a chair that can hold a stuffed animal using paper and tape?

Materials: Copy paper (3-5 sheets per chair), ruler, tape, stuffed animal (small to medium sized), scissors

Challenge Rules

1. You must use only the supplies listed below.
2. The chair must be free-standing and it must be constructed using a flat surface.
3. Your goal is to build a chair using paper and tape that can hold your stuffed animal without collapsing (falling over).
4. You are allowed to use scissors and tape.
5. There are many different ways to complete this challenge. Be creative!

Student Lab Sheet: Paper Chair Challenge

Directions: Answer the questions after completing the Chair STEM Challenge. (3 points each question)

1. Were you successful in this challenge? Why or why not?

2. What was the most difficult part of this challenge? Why?

3. Did your paper chair work? Why or why not? What type of chair design did you use? Why?

4. What did you learn about construction and engineering during this challenge?

5. What would you do differently next time?

Paper Chair Data (5 points)

Height of Chair: _____

Width of Chair: _____

Did it hold the stuffed animal without collapsing? _____

Draw your chair below.