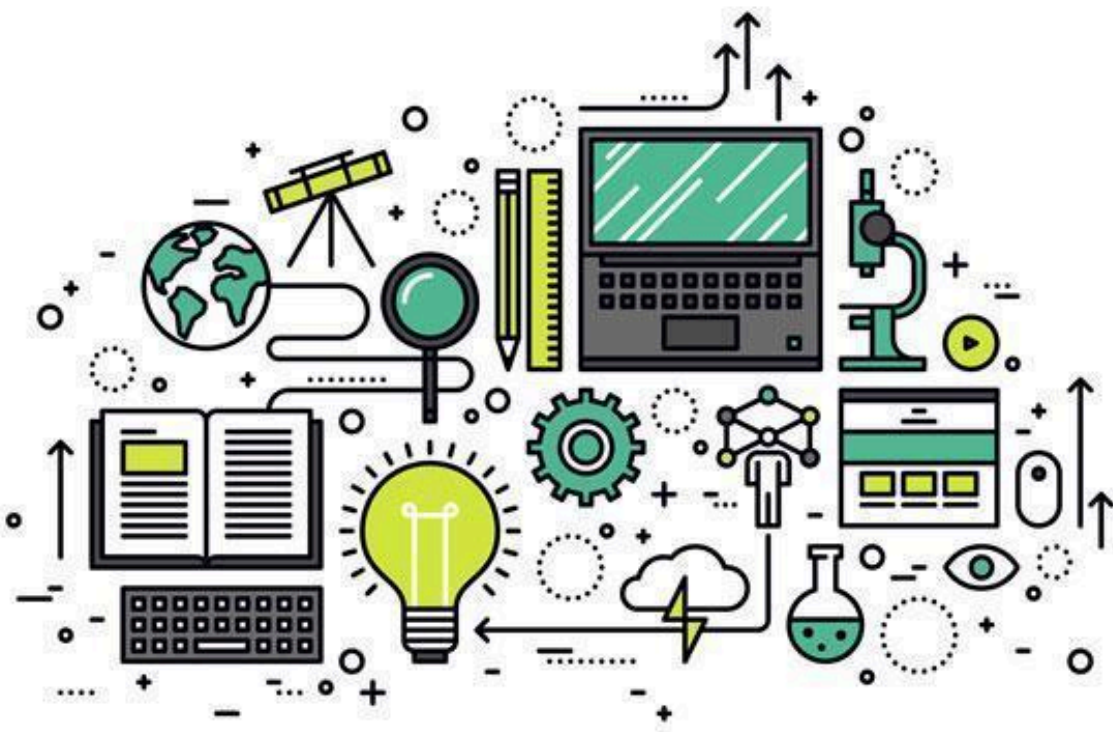




Stem Student packet



Name _____

Section _____



STEM Vocabulary

Evolution:

Adaptation:

Egg:

Reproduction:

Behavior:



STEM – Birds' Nest Blowout

Building Background Knowledge

Working Packet

Directions: Watch the assigned YouTube videos and do the assigned IXL. After watching the assigned videos, respond to the following questions below.

Respond

1. Humans have adapted to living in different parts of the world. We have furless bodies that are good in the heat, but bad in the cold. How did human **behavior** change to adapt to living in cold places?
2. What is a structural adaptation? How is it different from a behavioral adaptation? Provide an example of each.



STEM – Stick Bridge Simulation

Research

Working Packet

Group # _____ Section: _____
Student Name: _____
Partner's Name: _____

Challenge: Create a birds' nest out of human materials that is able to hold three regular-sized chicken eggs between two branches that is also able to resist winds sustained for 30 seconds.

Research

(Sources: **Science Notebook, Elevate Science Textbook, and/or Discovery Education.** Note the **sources** you used, including **page numbers, titles, and/or links** in the provided space below.)



Group # _____ Section: _____
Student Name: _____
Partner's Name: _____

Give your project a title:

Design the Prototype

(Create a labeled diagram of your prototype.)

Materials

--	--



--

Group # _____	Section: _____
Student Name: _____	
Partner's Name: _____	

Test your Prototype - Collect your Data
--

--



Group # _____ **Section:** _____
Student Name: _____
Partner's Name: _____

Improve the Prototype

(Re-design your Prototype. Create a labeled diagram of your improved prototype.)

Materials

--	--



Group # _____

Section: _____

Student Name: _____

Partner's Name: _____

Reflection Questions

1. In what way did you improve your prototype?

2. Do you expect the improved prototype to pass the challenge?
Why?

3. What did you learn? Discuss your success or lack of success and reasons for it.



Make a Movie – Use (*iMovie, Keynote, Flip, Canva, etc.*) to create a video/presentation following the instructions below. Share the movie or presentation on **Seesaw**.

Instructions: Record and submit a video of yourself and your team answering the following questions:

1. What was the title of your project?
2. What was your project about?
3. What were your findings during the research?
4. Which materials did you use from the available ones?
5. Did your prototype pass the challenge?
6. Why did your prototype pass or did not pass the challenge?
7. A. If YES to question #5, skip question #7!
B. If NO to question #5, what changes did you make to your prototype? Did it pass the challenge after you improved it?
8. What would you like the next STEM project to be on?



9. Add pictures and video that you recorded during the project in your presentation.