



Stem Student packet



Name _____

Section _____



STEM Vocabulary

Evolution:

Adaptation:

Egg:

Reproduction:

Behavior:



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

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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

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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.