

Student Activities

This bird inspires
me to build...



NATURE'S BLUEPRINT!
A Biomimicry Exploration

Lesson 1: Nature's Inspiration Station! - Biomimicry Matching Game

Directions: Cut out the Nature's Inspirations pictures. Match nature's inspiration to the inventions they inspired. *HINT: Look for parts that look alike!*



Lesson 1: Nature's Inspiration Station! - Biomimicry Matching Game



Lesson 2: Earthworm Engineers - Problems Earthworms Could Help You Solve

Directions:

Look at this picture of an earthworm. What do you see? Circle, label, or write down everything you notice. Be ready to talk about what you found.



In the space below, draw your own invention inspired by earthworms. Think about how they move, what they look like or what they do. Be creative, and don't be afraid to add to or change your ideas.



Lesson 3: My Biomimicry Creation - Activity 1: Brainstorming Biomimicry Inventions

Directions:

Write, sketch and label all you know and notice about your group's living being.

Make a sketch of your assigned animal here! →

What I Know

What I Notice

Lesson 3: My Biomimicry Creation - Activity 1: Brainstorming Biomimicry Inventions

Directions:

Sketch your ideas for an invention.
Label any biomimicry features (parts inspired by a living being).



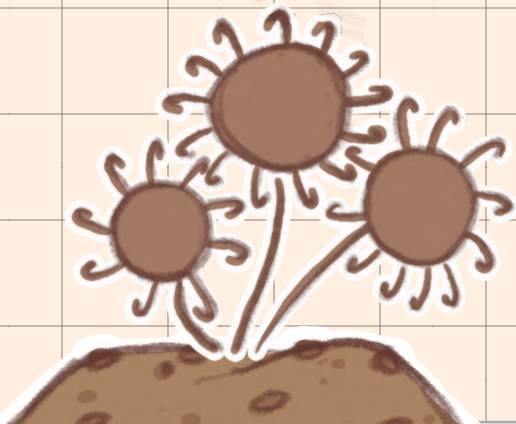
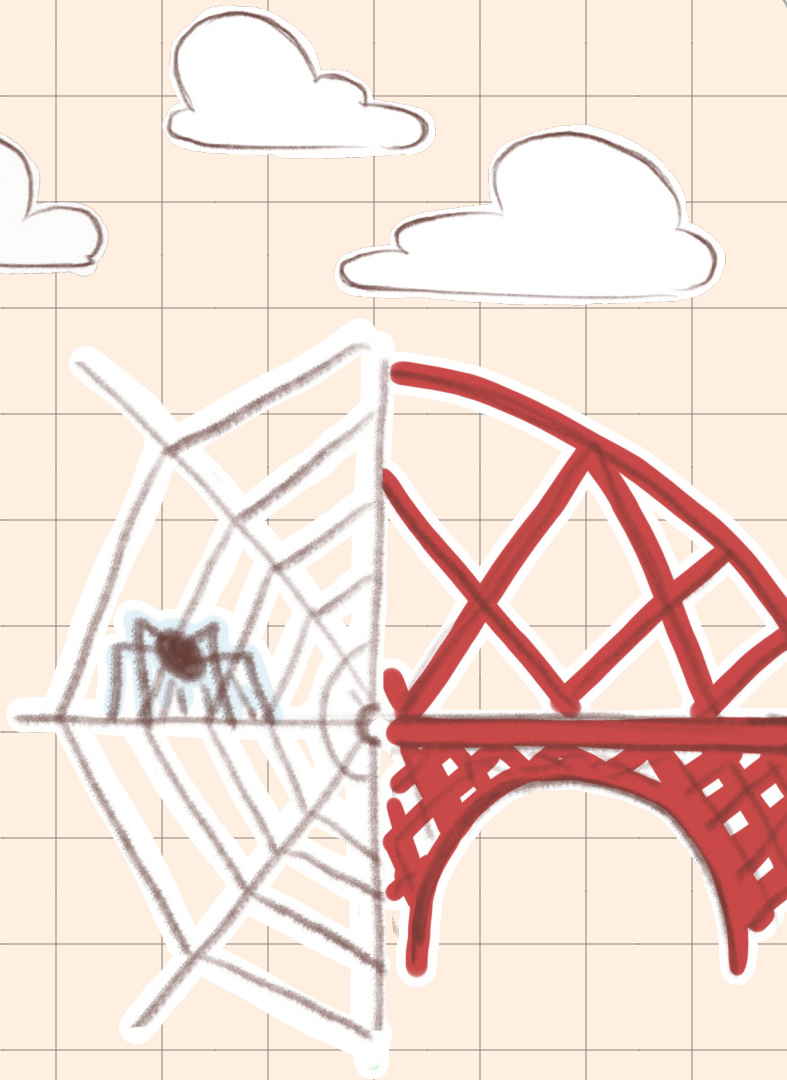
Lesson 3: My Biomimicry Creation - Activity 2: Bringing Biomimicry Inspired Ideas to Life!

Directions:

Before building a prototype, discuss these questions with your group and record your responses.

- What features did you use as inspiration for your invention?
- What is the problem you wanted to solve?
- How does the invention solve the problem?





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