Name:

Engineering Design Challenge

Student Sheet

For this STEM challenge, you will design a nature-inspired solution to a problem.

STEP 1: STUDY NATURE

Observe one of your favorite plants or animals up close (or by using books or Internet resources). What unique or interesting structures does it have that help it function, or survive in its environment?

Structure (Part)	Function (Purpose)
•	M mal and its unique structures and functions. What lant or animal help solve? How?
•	DESIGN would imitate the plant or animal in order to solve the land of the
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that could be designed to m	

STEP 4: BUILD A MODEL	
Experiment with simple materials you could use to build a model of your invention, then build it! List the materials you used below:	
STEP 5: SHARE YOUR SOLUTION Make an advertisement to "pitch" your invention. Give it a catchy name. Describe how it solves a problem and why people should use it. Tell how the invention is an example of biomimicry.	
Nature Did It First: Engineering Through Biomimicry — Dawn Publications	