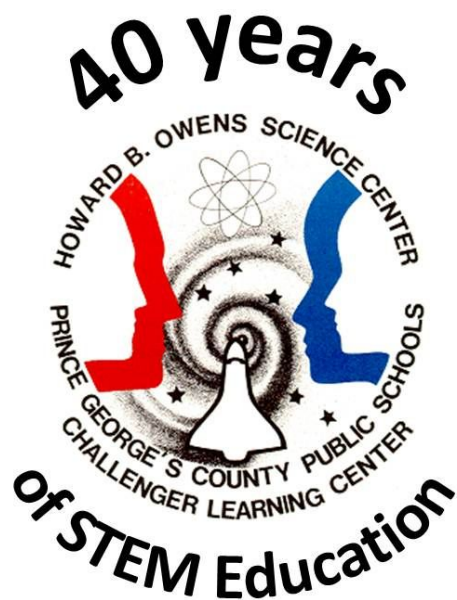




Mimic Me!

First Grade STEM Program
Post Visit Teacher Resources
Howard B Owens Science Center



Thank you for attending the *Mimic Me* Program at the Howard B Owens Science Center. Below are some follow up activities you can do to elaborate on the content covered during the program. You may choose to do all, some or none of these activities based on your students and available time in your schedule.

If you have already completed the [Pre-Visit materials](#) that include the story Papa's Mechanical Fish and Design Challenge, extend your learning of the same content with a Second Design Challenge. If you have not done the [Pre-Visit materials](#), that can be used as great follow up materials.

Second Design Challenge

Replay the last segment of the video or reread the last two pages of the story, *Papa's Mechanical Fish*.

At the end of the story Papa's Mechanical Fish, Virena (his daughter) asks "have you ever wondered what it is like to be a bird?' What is the next problem you think Papa will design a solution(invention)for based on his daughter's question? **How can a person fly through the air**

Based on the question, what animal's parts and behaviors will he copy mimic? **Bird**

Can you think of other animals that fly or glide through the air? **Squirrels, bats**

Design Challenge: Flying Invention

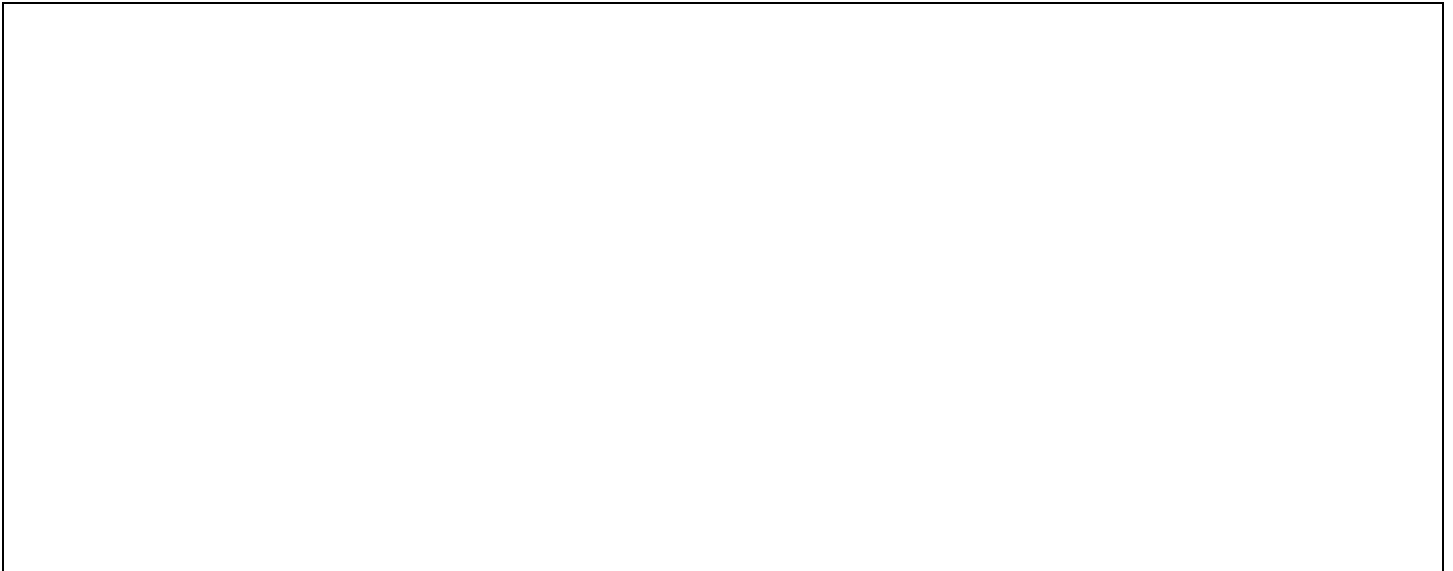
Name _____

Human Problem:

What animal's parts and behavior are you copying (mimicking) for your design solution?

Word Bank Research

Draw your design here. Be sure to include labels.



The problem I solved is _____.

My design mimics a _____ because _____.



















I added a _____ to help it _____.

Name _____

Reflect on Your Design

Student Self-Assessment

Biomimicry Design Solution

	How Did I Do?		
I can explain the human problem that needs solved.			
I used an animal's parts/behaviors in my design to help solve the problem. (Mimicry)			
I labeled the animal parts/behaviors I copied (mimicked) to solve the problem.			
I explained at least one animal part/behavior I copied (mimicked) and how it helped.			
My design choices helped solve the problem.			
I understand how engineers copy (mimic) animals to solve problems.			

This is a series of books by Sandra Markle and have been read by many people on YouTube. Get the books or show one or more of the videos to your class. You could separate your class into teams with each team focusing on one external feature.

Challenge: Have them solve a problem by using the external feature assigned to their team.

What If You Had Animal Teeth? By Sandra Markle

<https://www.youtube.com/watch?v=MqHr51mHBDo>

Book Trailer for "What If You Had Animal Teeth" by Sandra Markle

<https://www.youtube.com/watch?v=TLnRZduxVbc> (great visuals)

What If You Had Animal Ears? By Sandra Markle <https://www.youtube.com/watch?v=jEGypstSaCY>

What If You Had Animal Hair? By Sandra Markle

<https://www.youtube.com/watch?v=a3EONm7W7Fw>

What If You Had an Animal Nose? By Sandra Markle

<https://www.youtube.com/watch?v=-Gu4nyw4z3A>

What If You Had Animal Eyes? By Sandra Markle <https://www.youtube.com/watch?v=BPeh8eIBzDY>