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Name	Date	
Activity 8: Investigating Biomechanics		
<u>Guiding Question</u> : How does the structure of an arm or wing affect its function?		
Key Words: biomimicry, function, structure, tendons		
Get Started: 1. What do you think inspires people to create new things?		
2. Brainstorm a list of motivations for engineers trying to create a new design.		
3. How might you go about coming up with new ideas to solve a problem?		
4. Read the introduction and Guiding Question to Activity 8, "Investigating Biomecha Student Book.	anics," in your	
<u>Do the Activity</u> : Part A: Comparing the Chicken Wing to the Human Arm		
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- 1. Read Procedure Steps 1-3 in your Student Book.
- 2. Watch the LABsent video (found here: <u>LABsent Biomedical Engineering 8 Part A</u>), and record your data. Each time the video says to record, you may want to pause the video to give you ample time to complete your observations.
- 3. Read Procedure Steps 4-15 in your Student Book.
- 4. Watch the LABsent video (found here: <u>LABsent Biomedical Engineering 8 Part B</u>), and record your data. Each time the video says to record, you may want to pause the video to give you ample time to complete your observations.

Procedure Step 13: Draw a labeled diagram of the chicken wing. Include the tendons and the structures you located in Step 6.		
Procedure Step 14: Describe what you saw being done to make the wing move in opposite directions. Record your observations of the inside of the chicken bone.		

Date___

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Biomedical Engineering 8

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3. Describe how the structure of bird bones a	llows them to be both lightweight and strong.
	of bird bones, would you change your bone prototype o, describe how and why. If not, explain why not.