



## FrankenFish

Explore the adaptations of fish by using art to create your own unique fish.

*Overview: In this lesson students will learn “how to read a fish” by making observations about the anatomy of a fish. The characteristics of a fish’s body can tell us a lot about how the fish lives its life. Students will then use the fish adaptations list to create a unique fish, label and explain each adaptation.*

### Lesson Characteristics:

Use the table below for lesson planning purposes:

|                    |  |
|--------------------|--|
| Grade              | 2-8  |
| Time Required      | 30 minutes                                     |
| Key Concepts/Terms | Adaptations                                    |
| Setting            | Indoors  |
| Materials          | Paper and art supplies for drawing or painting |

### Next Generation Science Standards:

| Science and Engineering Practices       | Disciplinary Core Ideas   | Crosscutting Concepts |
|---|---|-----------------------|
| Asking questions and defining problems. | LS1.A: Structure and Function   | Patterns              |
| Engaging in argument from evidence.     | LS3.B: Variation of Traits<br>LS4.B: Natural Selection<br>LS4.C: Adaptation | Cause and Effect      |

### Learning Objectives

Students will...

*...learn to “Read a Fish” by identifying adaptations and their purpose.*

*...use the list of fish adaptations to create a unique fish.*

*...identify how their fish’s adaptations help their fish to survive.*

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*Preparation:*

Gather art materials

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*Background Information:*

*Vocabulary:*

| Term       | Definition  |
|------------|---|
| Adaptation | A behavior or part of an organism's body that helps it to survive.      |
| Habitat    | the natural home or environment of an animal, plant, or other organism. |

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*Procedure:*

Follow the steps in the table below to conduct the activity.

**Sentences in bold are suggestions for what an educator might say to students.**

*Items in italics are possible student answers to questions.*

| Step  | Action  |
|---|---|
| 5E's: Engage                      Learning Cycle: Invitation          |   |
| 1   | <b>Did you know you can “Read a fish”. That’s right, you can read a fish like a book</b><br><b>By making observations about each part of a fish’s body, you can tell a lot about how the fish lives its life.</b><br><br><i>Review the definition of an adaptation.</i> |
| 5 E's: Explore                      Learning Cycle: Exploration       |   |
| 2   | 1. Download “FrankenFish Guiding Questions”<br>2. Watch the video “FrankenFish”<br>3. Complete the guiding questions.   |
| 5 E's: Explain                      Learning Cycle: Concept Invention |   |
| 3   | 1. Download “FrankenFish Adaptation List”<br>2. Choose an adaptation from each category.<br>3. Gather art supplies and combine each adaptation to create your FrankenFish.  |
| 5 E's: Elaborate                      Learning Cycle: Application     |   |
| 4   | 1. Label the adaptations on your fish.  |

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|   |  |
|---|--|
|   | 2. Share your Franken Fish! If you would like to share it with the Alice Ferguson Foundation send it to this email address: <a href="mailto:hbfed@fergusonfoundation.org">hbfed@fergusonfoundation.org</a> |
|   | 5 E's: Evaluate                      Learning Cycle: Reflection  |
| 5 | Review students drawings and assess the accuracy of the adaptations they labeled.  |

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