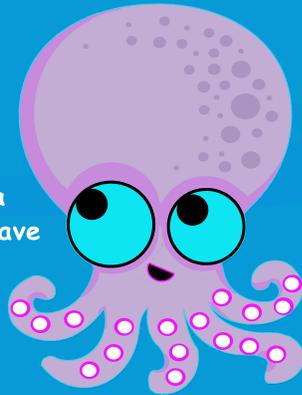


The Quiet Adventures of Iggy the Introverted Inkapus

Lesson 3

"I may not talk a lot, but I sure have a lot to say"

~Iggy, *Good Friends Are Hard to Shake*



Sea Creature Science Fun

LEARN FUN FACTS ABOUT IGGY AND HIS SEA CREATURE FRIENDS!

INSTRUCTION STEPS

1. Open the lesson by reading *Good Friends are Hard to Shake*.
2. When finished, ask students to repeat key details from the text related to habitats.
3. For example, ask students to answer the following questions, referencing illustrations in the book to guide student answers:

- What part of the ocean did Iggy move from?
- What part of the ocean did Iggy move to?

- What type of “house” does Iggy live in?
- What are characteristics of Iggy’s cave? (e.g., small or big? Light or dark?)

2. Next, distribute the handout “Fun Animal Facts” and review together as a class. As you review the fun facts, ask students to identify where on a map each animal lives.

3. Discuss the characteristics of each animal and how they are similar and different.

4. Distribute the “Favorite Animal Tally” handout and have students

circulate the room interviewing their classmates about their favorite animal. If needed, show students how to tally their answers by modeling on the board first.

5. Review as a class which animal got the most votes as favorite and why.

6. Close the lesson by having students share—in writing or discussion—at least two facts about the animal they selected as their favorite.

ABOUT THIS LESSON

Objective: To introduce students to ocean habitats and animals

Time: 45 minutes

Supplies: *Good Friends are Hard to Shake* by Kristen Maxwell (ISBN 978-0-9907453), “Fun Animal Facts” handout, “Favorite Animal Tally” handout, map

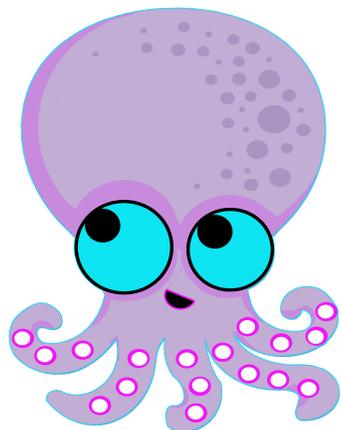
Education Standards: Next Generation Science Standards, Common Core Math and ELA, see page 4



FUN ANIMAL FACTS

Read fun facts about Iggy and a few of his friends below.

All About Octopuses



- Octopuses are **introverted** animals that rarely leave their dens. They usually only leave their den to find food or a mate.
- Octopuses have eight arms. Two of their arms act like legs. Each arm has 240 suction cups to help them hold things and smell.

What's An Introvert? Introverts are energized by spending time alone; they are easily stimulated so often prefer quiet and working independently; often have a few close friends; like to talk one-on-one rather than in large groups.

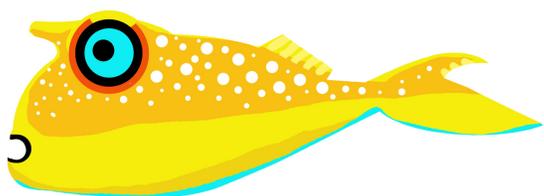
All About Angelfish



- The Juvenile Emperor Angelfish likes its space and can be territorial.
- Angelfish live in **coral reefs** in the Pacific and Indian Oceans.

What's A Coral Reef? A coral reef is a long line of coral that lies in warm, shallow water.

All About Longhorn Cowfish

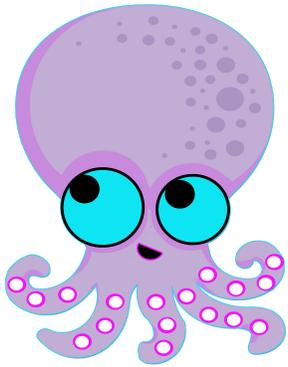


- The longhorn cowfish is **extroverted**, friendly, and very social.
- Longhorn cowfish live in the Red Sea and tropical Indo-Pacific.

What's An Extrovert? Extroverts are energized by spending time with others; they are harder to stimulate so prefer active, high-energy environments and working with groups; often prefer many friends and team activities.

FAVORITE ANIMAL TALLY

Ask your classmates to share with you their favorite animal from the chart below and tally each response in the chart.



Iggy the Octopus



**Cora the Longhorn
Cowfish**



**Maze the Juvenile
Emperor Angelfish**

EDUCATION STANDARDS: Next Generation Science Standards K–2
(<http://www.nextgenscience.org>)

Kindergarten:

- K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.
- K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.
- K-ESS3-1. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.

Grade 1:

- 1-LS1-2. Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.
- 1-LS3-1. Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.

Grade 2:

- 2-PS1-1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
- 2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.

EDUCATION STANDARDS: Common Core Math K–2
(<http://www.corestandards.org/Math/>)

Kindergarten:

- MP.2 Reason abstractly and quantitatively.
- MP.4 Model with mathematics.
- K.CC.A Know number names and the count sequence.
- K.MD.A.1 Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.
- K.MD.B.3 Classify objects into given categories; count the number of objects in each category and sort the categories by count.
- K.MD.A.2 Directly compare two objects with a measurable attribute in common, to see which object has “more of”/”less of” the attribute, and describe the difference.

Grade 1:

- 1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

Grade 2:

- 2.MD.D.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.

TEACHER TIP

To expand the lesson into ocean life, spend time discussing coral reefs in detail. Show students pictures of different coral reefs and the types of coral that can be found. For older students, consider discussing the environmental impact on coral reefs as a result of human activity.



EXTENSION ACTIVITIES

Sea Creature Expansion

For additional study on sea creature animals, provide students with facts on other characters in *Good Friends Are Hard To Shake* such as Flash, a Fairy Basslet, and Sarge, a Clown Triggerfish.

Octopus Facts

Have students conduct research on octopuses similar to Iggy and have them write a brief report on what they learn.

Kindergarten:

- W.K.7 Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them).
- RI.K.1 With prompting and support, ask and answer questions about key details in a text.
- W.K.1 Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book.
- W.K.2 Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.

Grade 1:

- RI.1.1 Ask and answer questions about key details in a text.
- RI.1.2 Identify the main topic and retell key details of a text.
- RI.1.10 With prompting and support, read informational texts appropriately complex for grade.

Grade 2:

- RI.2.1 Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.
- RI.2.3 Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text.
- RI.2.8 Describe how reasons support specific points the author makes in a text.
- W.2.1 Write opinion pieces in which they introduce the topic or book they are writing about, state an opinion, supply reasons that support the opinion, use linking words (e.g., because, and, also) to connect opinion and reasons, and provide a concluding statement or section.
- W.2.8 Recall information from experiences or gather information from provided sources to answer a question.