Gateways to Science STAAR Edition

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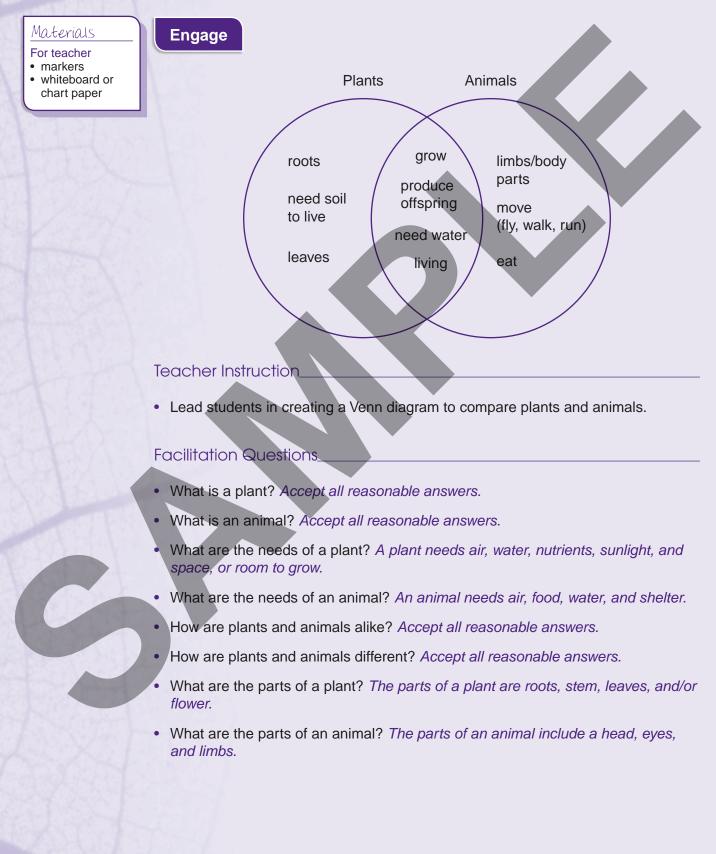


Kindergarten

Lesson 1: Animals

Learning Goal

Explore the needs and physical characteristics of animals.



Explore

Activity 1

Advance Preparation_

- Place the plastic animals (one for each student) inside the mystery cup. You will use these animals for several discussions with your students. If you are unable to locate small plastic animals, the animal photo cards can be used.
- Gather five sorting circles or prepare chart paper with circles for sorting.

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Teacher Note

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For the Explore activities, use small, plastic lifelike animals. These animals can be purchased from craft and/or toy stores or online.

Materials

Activity 1

- For teacher • marker
- sticky notes
- mystery cup from
- Unit 1, Lesson 2 Engage • small plastic animals,
- including fish, zoo and farm animals, amphibians, birds, and insects
- sorting circles or chart paper with circles for sorting

Teacher Note

Students need to understand that animals have limbs. For this lesson, limbs are defined as arms, fins, flippers, legs, and bird wings. Activity 1 will focus on the number of legs for each animal then the number of limbs for each animal.

Teacher Instruction

- Gather students for a whole-group discussion.
- Ask: How many legs do animals have? Animals have 2, 4, 6, or 8 legs, and some have none. (Write each number on a sticky note to label the sorting circles.)

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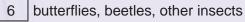
- Display the sorting circles and place one sticky note label in each circle.
- Pass the mystery cup to one student and instruct the student to remove one animal from the bag.
- Instruct the student to display the animal for the class, identify the animal, and tell how many legs the animal has.
- Instruct the student to place the animal on the correct sorting circle.
- Allow each student to have a turn then create a graph using the animals.
- Remove the sticky note label from one of the circles and place it in an open area. Be sure enough space exists to create a graph using all of the animals.

Lesson 1: Animals

- Ask several students to place the animals from that circle in a line above or beside the sticky note.
- Repeat until all of the animals are represented in the graph.

Sample Graph

8 spider, octopus



4 dog, cat, elephant, lion, cow, frog

2 flamingo, peacock, chicken, duck, human

0 whale, shark, fish

Facilitation Questions_

- Do we have more animals with four legs or animals with two legs? Answers will vary depending on the animals used for the lesson.
- Do all animals with two legs look the same? No, they might be different colors and different sizes.
- How are they different? Answers will vary depending on the animals being compared.
- How are the legs of a/an _____and a/an _____different? Answers will vary depending on the animals being compared.

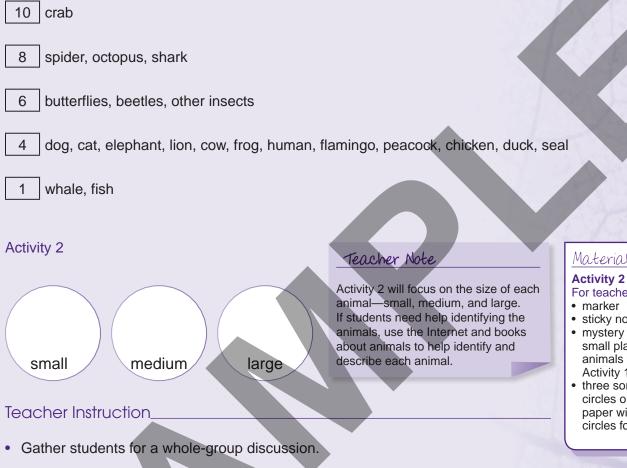
Teacher Instruction_

• Ask: What are an animal's limbs? An animal's arms, legs, wings, fins, or flippers are limbs.

Teacher Note

For this lesson, limbs are arms, fins, flippers, legs, and bird wings. When counting fish and shark fins, you may find a shark or fish with a different number of fins than shown on the graph, graph accordingly.

 Ask: If we are going to make a graph of how many limbs each animal has, which animals need to be moved to a new column? See sample graph below for possible answers.



- Write the word large on a sticky note and ask students to name some animals that are large in size. Elephants, polar bears, cows, horses, and giraffes are examples of large animals.
- Write the word small on a sticky note and ask students to name some animals that are small in size. Mice, lizards, hamsters, hedgehogs, and insects are examples of small animals.
- Write the word medium on a sticky note and ask students to name some animals that are medium in size. Dogs, pigs, and monkeys are examples of medium-size animals.
- Display the sorting circles and place one label in each circle. •
- Pass the mystery cup to one student and instruct him or her to remove one animal from the bag.
- Instruct the student to display his or her animal for the class, identify the animal, and tell what size the animal is in real life.
- Instruct the student to place the animal in the correct sorting circle. •

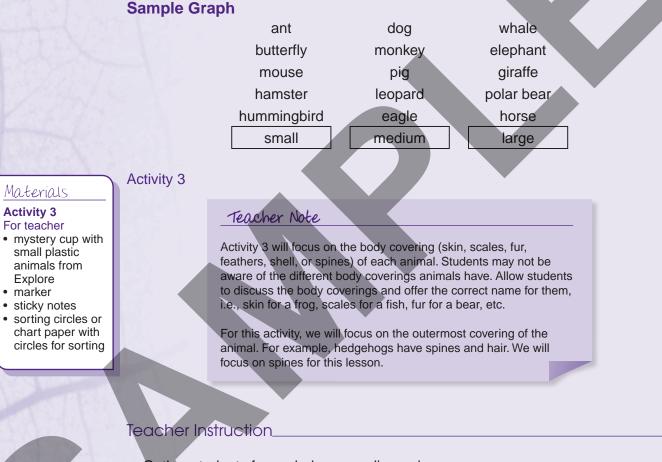
Materials

For teacher

- sticky notes
- mystery cup with small plastic animals from Activity 1
- three sorting circles or chart paper with circles for sorting

Lesson 1: Animals

- Allow each student to have a turn, and then create a graph using the animals.
- Remove the sticky note label from one of the circles and place it in an open area.
- Ask students to place the animals from that circle in a line above or beside the sticky note.
- Repeat until all of the animals are represented in the graph.



- Gather students for a whole-group discussion.
- Display the sorting circles and inform students that they are going to help label the circles during the lesson.
- Pass the mystery cup to one student and instruct him or her to remove one animal from the cup.
- Instruct the student to display his or her animal for the class, identify the animal, and tell what kind of body covering the animal has in real life.
- Instruct the student to place his or her animal in a sorting circle.
- Ask the student what label should be placed in the circle, write it on a sticky note, and label the circle with the name of a body covering such as skin, fur, feathers, scales, shell, or spines.

Materials For teacher · Animals student

reader · mystery cup with small plastic

animals from Explore

· class science notebook

For each student

markers

crayons half-sheet of drawing paper

pencil

Lesson 1: Animals

- Allow each student to have a turn and label additional circles, as needed.
- Guide students in sorting the animals by body covering, and then create a graph • using the animals.

Sample Graph



Explain

Teacher Instruction

- Read aloud Animals to students.
- Display the animals from the mystery cup, one at a time, using the facilitation questions to lead a discussion.

Facilitation Questions

- If you saw a live (insert name of animal), would it be large, medium, or small? Answers will vary depending on which animal is named.
- How does a (insert name of animal) meet its needs? Answers will vary depending on which animal is named.
- Does a young (insert name of animal) look like its parents? Answers will vary • depending on which animal is named.

Teacher Instruction

- Instruct each student to draw and color a picture of his or her favorite animal from the lesson.
- Gather students to make an entry in the class science notebook about animals.

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Lesson 1: Animals

Possible science notebook entry:

Animals are living things. Animals need food, water,

and shelter to grow. Animals can be different sizes

and colors.

Materials

For each student

- RM 1
- crayons liquid glue
- pencil
- scissors
- broom bristles
- toothpicks (optional)
- brown felt
- craft feathers
- plastic shopping bags
- small plastic cups
- contact paper (optional)
- small sequins

Advance Preparation_

Elaborate

- Cut 5 cm x 5 cm pieces from the plastic bags, one for each student.
- Cut 5 cm x 5 cm pieces of felt, one for each student.
- Cut one piece from the small plastic cups that will cover the turtle shell.
- Cut broom bristles for each student.
- Divide the felt, feathers, and sequins for each student.
- Distribute the materials before the activity or be prepared to distribute them during the lesson.

Teacher Note

The plastic cup piece may not remain glued to the page. Contact paper could also be used for the turtle shell and toothpicks could be used in place of the broom bristles for the porcupine.

Animal Characteristics

Teacher Instruction_

- Provide RM 1: Animal Characteristics to students.
- Instruct students to put their names on the first page.
- Instruct students to color the animals on each page.
- Instruct students to complete each page by filling in the blank with the correct number of legs for each animal and adding a sample of the body covering of the animal. (Feathers for the bird, sequins for the fish scales, plastic bag for frog skin, felt for bear fur, toothpicks or broom bristles for porcupine quills, and plastic cup piece or contact paper for turtle shell.)
- Allow adequate time for the pages to dry.
- Instruct students to cut on the dotted line of each page and put the pages in order.
- Staple the pages together to create a book.

Evaluate

Teacher Instruction

- Instruct students to sort the animals by size, number of legs, or type of body covering.
- Observe students' work and correct any misunderstandings.

Materials

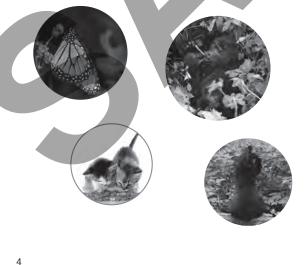
For teacherplastic animals from Explore

A bird has feathers.





Animals eat different kinds of things.

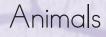


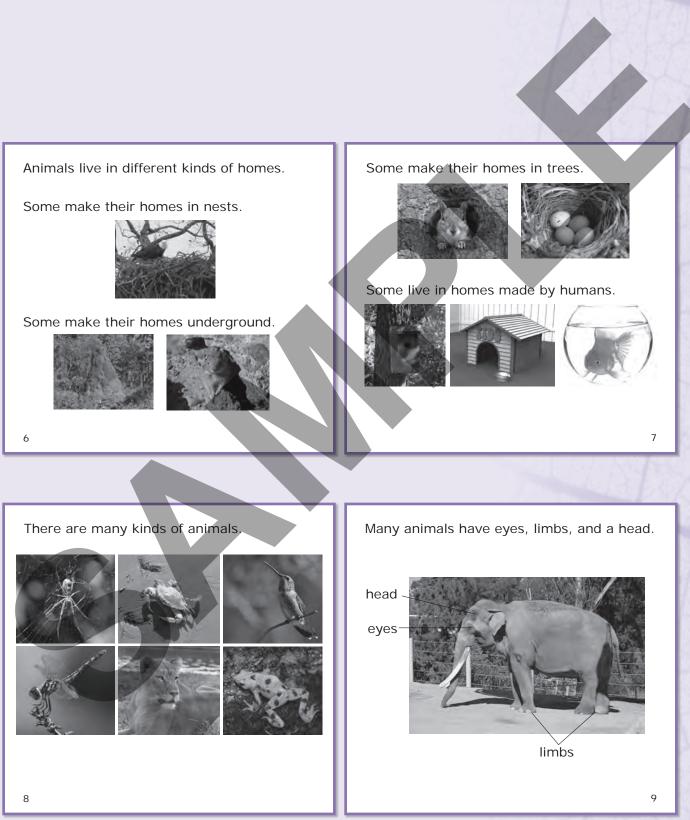
Animals drink water and use water to bathe or cool off. Some animals live in water.





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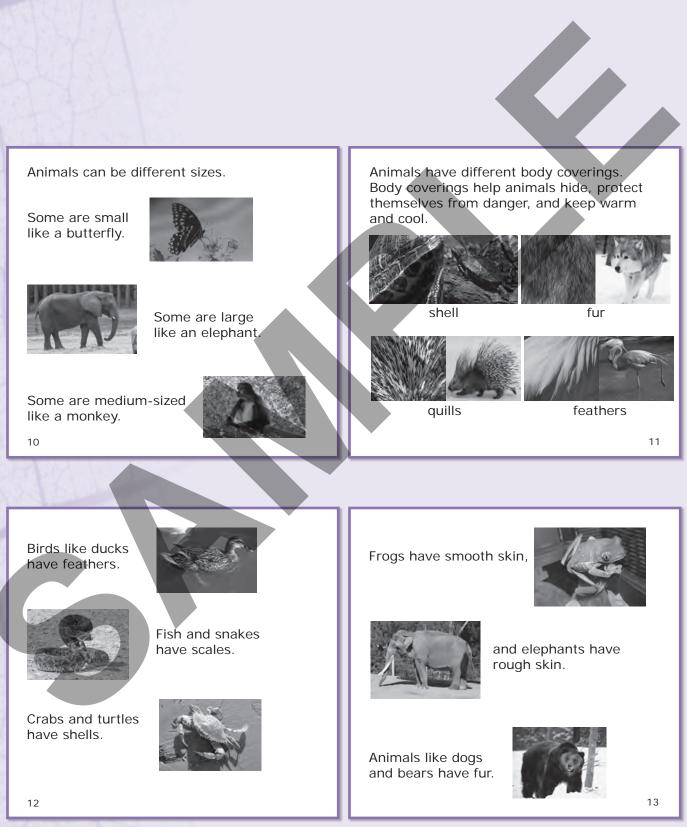


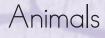


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Lesson 1: Animals

Animals







Lesson 1: Animals

Animals



Animals are living things. They are different colors and sizes and live in different types of homes, but they all have basic needs and produce offspring.



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