



Let's Do

SCIENCE

Kindergarten

Activity Book

A



Let's Do! Science

Let's Do! Science is based on the United States Next Generation Science Standards (NGSS). The series consists of full-color textbooks and full-color activity books for Grades K to 6.

Let's Do! Science engages students with a highly visual presentation of the disciplinary core ideas in the textbooks and places an emphasis on applying scientific knowledge using NGSS practices through numerous scientific investigations. Let's Do! Science sees engineering as an essential element of science education and as such is tightly integrated into both the textbooks and activity books.

The Let's Do! Science activity books include the following features:

AB Activity

Activities and investigations related to concepts and topics covered in the Let's Do! Science Textbook.

Engineer It!

Goes beyond inquiry by encouraging students to design, model and build to engineer solutions to defined problems.

Review

Topical questions at the end of each chapter for formative assessment.



Activity 49 Observe a Fish

Materials

- fish in a fish tank
- fish food

Procedure

- As a class, observe the fish in the fish tank. Discuss the things the fish does.
- Place a pinch of fish food in the fish tank. Observe and discuss what the fish does.

Observations

- Draw the fish in the fish tank.
- What did the fish do when the fish food was placed in the fish tank?

Analyze and Interpret

True (✓) or false (✗)

The fish moves

The fish does not need water.

The fish needs food.

The fish is a living thing.

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Engineer It! Make a Cactus!

Did you know that cacti store water in their stems? Animals try to eat cacti to get the water inside the stems.

Design and build a cactus that will stop animals from getting to its water.

Materials

- art and craft supplies
- toothpicks

Draw a Model

Draw a model of your cactus.

Analyze and Interpret

What feature does your cactus have that helps protect it from animals?

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Review All About Animals

- List two animals that live in the ocean.

- List two animals that live in forests.

- Match the animals to how they move.
 • hop
 • run
 • swim
 • fly
- True (✓) or false (✗)
(a) Animals need air, food and water.
(b) Animals make their own food.
(c) All animals eat plants for food.
- List two ways plants are similar to animals.

- List two ways animals are different from plants.

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Activity 1.1



What Are Living Things?

1. Check the living things.
Cross the non-living things. ✓✗ 





2. Go into your schoolyard.
Draw two living things.
Name each living thing you draw.

Living Thing 1

A large rectangular area for drawing and writing. The top portion is a large dashed rectangle for drawing. Below it is a writing area with a solid top line, a dashed middle line, and a solid bottom line.

Living Thing 2

A large rectangular area for drawing and writing. The top portion is a large dashed rectangle for drawing. Below it is a writing area with a solid top line, a dashed middle line, and a solid bottom line.

Activity 1.2



What Things Do Animals Need?

1. Match the animals to the food they eat.



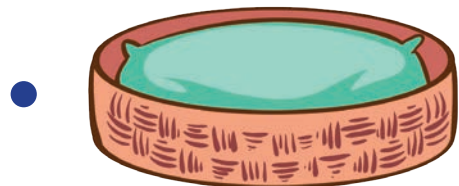
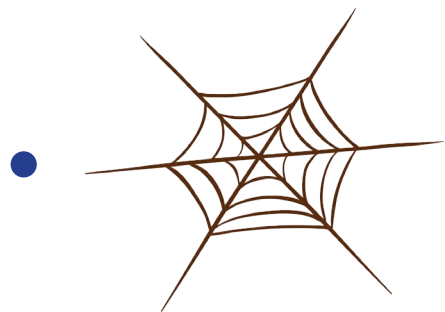
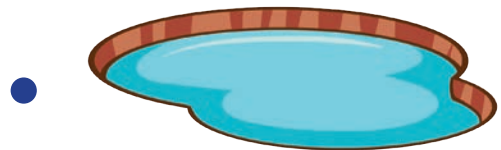
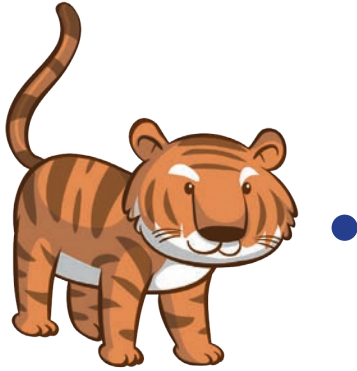


2. Draw and name an animal that eats plants.

3. Draw and name an animal that eats other animals.



4. Match the animals to the place they live.





5. Draw a home for each animal.



Activity 1.3



Caring for a Pet

1. Circle the pet you would like to care for. 



cat



rabbit



hamster



lizard

2. Draw a picture to show how you will care for your pet.



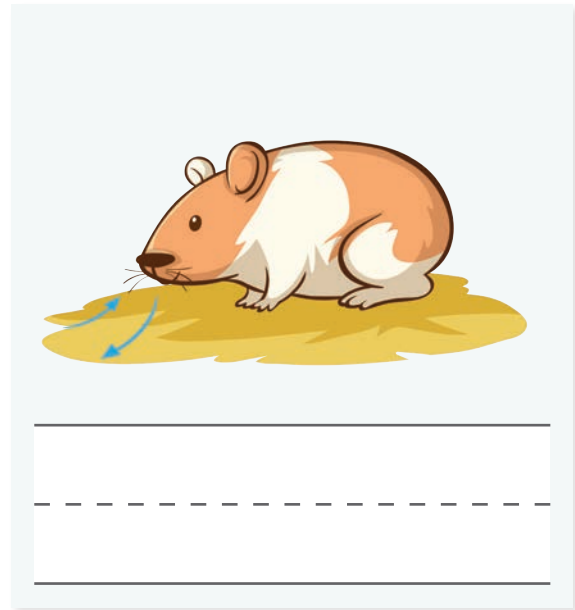
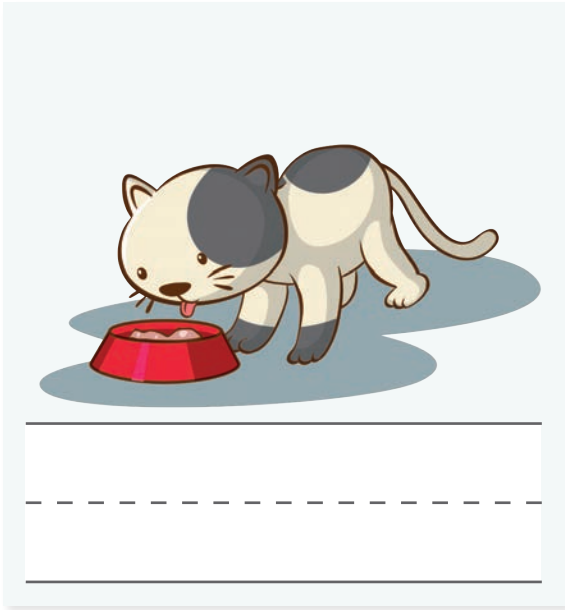
3. What do pets need to live and grow?
Use the words in the box to help you.

air

food

water

shelter



Activity 1.4



The Needs of Plants

1. Match the words to show the needs of plants.



sunlight



water



air



2. Draw the things the young plant needs.



3. What will happen to a plant if it does not get the things it needs?

Activity 1.5



What Things Do People Need?

Write a sentence to tell the things people need to live and grow. Use the photographs to help you.

1.



2.





3.



4.





Build an Animal Home



Sophie and Chelsea have a pet snail. Help design and build a home for their snail. Show how the home gives the snail all the things it needs.

What things will you use to make the shelter?



Draw a Model



What things does the shelter provide for the snail?

Activity 1.6



How Do Animals Move?

Use the words in the box to describe how the animals move.

run

crawl

swim

slide

fly

1.



2.



3.



4.





5.



Handwriting practice lines: a solid top line, a dashed middle line, and a solid bottom line.

6.



Handwriting practice lines: a solid top line, a dashed middle line, and a solid bottom line.

7.



Handwriting practice lines: a solid top line, a dashed middle line, and a solid bottom line.

8.



Handwriting practice lines: a solid top line, a dashed middle line, and a solid bottom line.

9.



Handwriting practice lines: a solid top line, a dashed middle line, and a solid bottom line.

10.



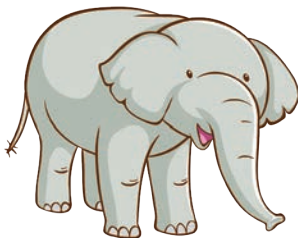
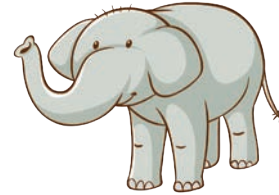
Handwriting practice lines: a solid top line, a dashed middle line, and a solid bottom line.

Activity 1.7



Living Things Reproduce and Grow

1. Match the adult animals to their young.





2. Draw pictures to show how you grow and change.

1 year old 	4 years old
10 years old 	20 years old

3. How do people change as they grow?

Activity 1.8



Alike and Different

1. Tell how these cacti are alike and how they are different.



How they are alike ...

How they are different ...



2. Tell how these lions are alike and how they are different.



How they are alike ...

Handwriting practice lines for the 'How they are alike ...' section, consisting of three sets of solid top and bottom lines with a dashed middle line.

How they are different ...

Handwriting practice lines for the 'How they are different ...' section, consisting of three sets of solid top and bottom lines with a dashed middle line.

Activity 1.9




Is It a Living or Non-living Thing?

Check the boxes. 


Write 'living' or 'non-living'.

1.

	Needs air:	<input type="checkbox"/>
	Needs water:	<input type="checkbox"/>
	Eats or makes food:	<input type="checkbox"/>
	Moves by itself:	<input type="checkbox"/>
	Has young:	<input type="checkbox"/>
	Grows:	<input type="checkbox"/>

An airplane is a _____ thing.

2.

	Needs air:	<input type="checkbox"/>
	Needs water:	<input type="checkbox"/>
	Eats or makes food:	<input type="checkbox"/>
	Moves by itself:	<input type="checkbox"/>
	Has young:	<input type="checkbox"/>
	Grows:	<input type="checkbox"/>

A sunflower plant is a _____ thing.



Living Things Around Us

1. Use the words in the box to compare the needs of animals, people and plants.

air

food

water

sunlight

- (a) List three things animals and people need.

Handwriting practice lines for question (a). Each line set consists of a solid top line, a dashed middle line, and a solid bottom line. There are three such sets of lines provided for the student to write their answer.

- (b) List three things plants need.

Handwriting practice lines for question (b). Each line set consists of a solid top line, a dashed middle line, and a solid bottom line. There are three such sets of lines provided for the student to write their answer.



2. How do plants get food?

3. How do animals get food?

4. True (✓ ) or false (✗ ).

(a) A plant is a living thing.

(b) Plants eat other plants for food.

(c) Non-living things grow and change.

(d) Living things move.

(e) Non-living things need air and food.

(f) Water is a living thing.

(g) People need a place to live.

Activity 4.1



Animals in the Schoolyard

Materials

- hand lens
- notebook and pencil



Procedure

In small groups, go into your schoolyard and find two small animals. Use a hand lens to observe them closely. Record your observations.





Animal 1

=====

Animal 2

=====

Analyze and Interpret

1. How were the animals the same?

2. How were the animals different?

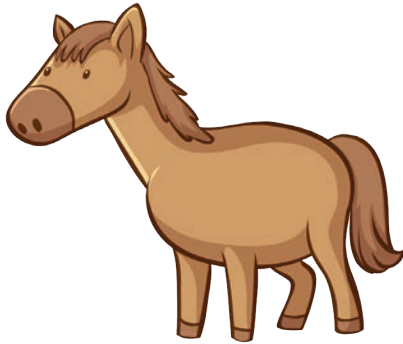
Activity 4.2

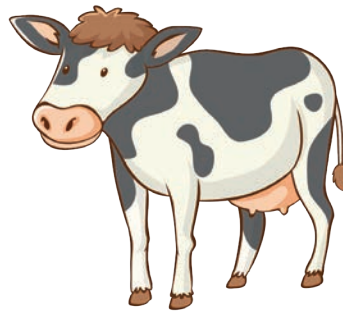


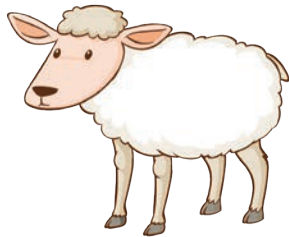
Name the Animals

1. Use the words in the box to name the animals.

cow sheep horse chicken









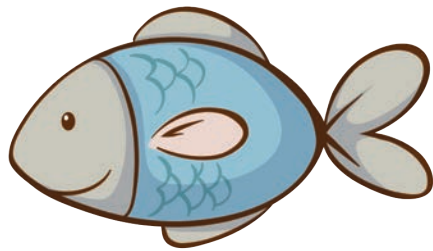
Where do these animals live? Check the box. 





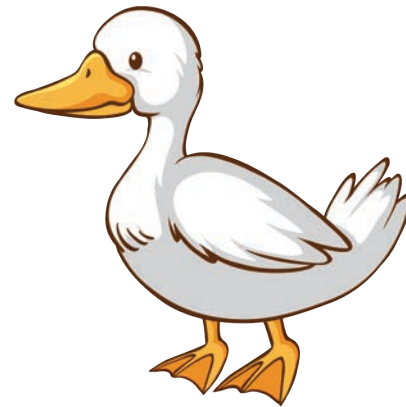
2. Use the words in the box to name the animals.

frog fish butterfly duck

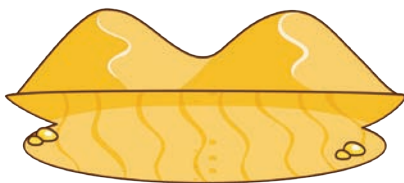








Where do these animals live? Check the box. 





3. Use the words in the box to name the animals.

squirrel bear owl deer









Where do these animals live? Check the box. 





4. Use the words in the box to name the animals.

lion giraffe zebra meerkat





Where do these animals live? Check the box. 

