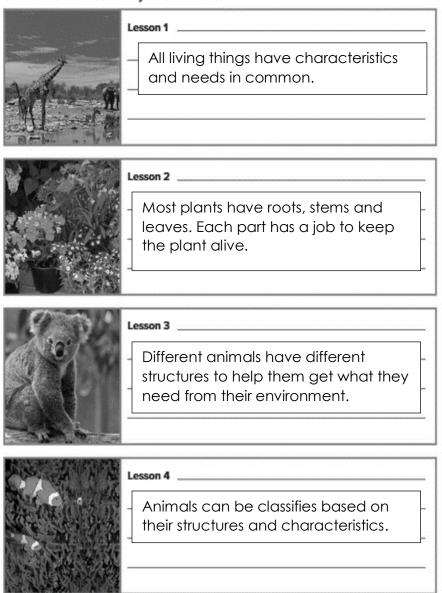
Grade 3 Science review

CHAPTER 2 Review

Visual Summary

Summarize each lesson in your own words.



80 Chapter 2 • Review

Vocabulary

Fill each blank with the best term from the list.

cells	mammal	photosynthesis	shelter
environment	nutrient	reproduce	vertebrate
invertebrate	organism	· · · .	
1. Animals often see	ek a safe place, or		
shelter	to pro	tect themselves.	
2. Each living thing	is an <u>org</u> ar	nism	
3. An animal with a	backbone is called	a	
vertebrate	· · · ·		
 Living things			
5. A vertebrate that	is born live is called	da	
— mamm	nal —		
6. A substance that	helps living things g	grow and stay healthy is a	
– nutrient	·····::		
7. Plants make their	own food using the	e process of	
— photos	synthesis		
8. Living things are	made of one or mo	re tiny	
	<u> </u>		
9. An animal withou	t a backbone is call	ed an	
— invertet	orate		
10. All the living and	nonliving things tha	at surround an organism are	
part of an el	nvironment		

CHAPTER 2 Review

Skills and Concepts

Answer each of the following in complete sentences.

 Main Idea and Details What makes living things different from nonliving things?

Living things use energy to grow, respond, while nonliving things do not.

 Descriptive Writing Describe the structures that different animals use to breathe.

Fish breathe using gills, while other animals have lungs. Some animals can take in oxygen through their skin.

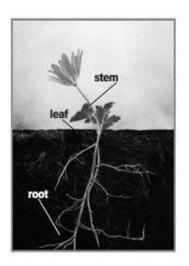
 Classify Group the following animals as vertebrates or invertebrates: butterfly, cow, snail, goldfish, owl, spider.

Vertebrates	Invertebrates
Cow, goldfish, owl	Butterfly, snail, spider

14. Critical Thinking What might happen to a plant if someone picked most of its leaves?

A plant that lost most of its leaves would not be able to make much food through photosynthesis. It will grow new leaves quickly or it will die. Stem hold up the plant and takes nutrients through the plant.

- E Leaves change sunlight into food for the plant.
- Roots bring water and nutrients from the soil to the plant, helps support the plant.





16. How do living things get what they need to live and grow?

Circle the best answer for each question.

- What is one question you could ask to find out whether something is living?
 - A Does it take in nutrients?
 - B Was it made by humans?
 - C Does it come from nature?
 - D Is it made of more than one cell?
- Some plants in tropical rain forests have very large leaves. The large leaves help the plants
 - A save their energy.
 - B lose extra rainwater.
 - Cabsorb more sunlight.
 - D support their tall trunks.
- The large ears of a desert jackrabbit help it
 - A run fast.
 - B blend in.
 - C find food.
 - D stay cool.

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- How do animals use camouflage to survive?
 - A by standing out from their environment
 - B by absorbing more sunlight
 - C by blending in with their environment
 - D by giving warning calls
- Where would you most likely find animals with thick fur and a lot of blubber?
 - A the desert
 - (B) cold, arctic waters
 - C a rain forest
 - D warm ocean waters
- All of the following are needed for a plant to live except
 - A nutrients only.
 - B water, air, soil and light.
 - C light and water only.
 - D soil and air only.

 Caribou live in the arctic tundra. They spend most of the summer eating small plants.



What do they do in winter when plants are hard to find?

- A eat meat instead of plants
- B hibernate

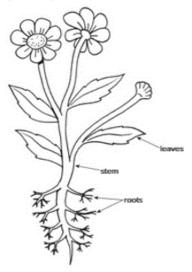
)

- C change color
- Dmigrate
- How do a plant's roots help it get what it needs?
 - A They take in sunlight.
 - B They take in carbon dioxide.
 - C They take in water.
 - D They take in food.

 \sim

Answer the following question.

Describe how the labeled parts of the plant help it survive.



Roots take in water.

Stem takes water to other parts.

Leaves help to make food.

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Visual Summary

Complete the lesson summary in your own words.

	Growth Changes
1	Plants go through a series of changes as they grow.
\tilde{I}	
A	Flowering Plants and Conifers



Grow from seeds and have similar life cycles.

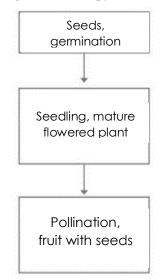
	Ferns
	Ferns make spores. Other plants grow in different ways.
Alles	

Think, Talk, and Write

Vocabulary What is fruit?

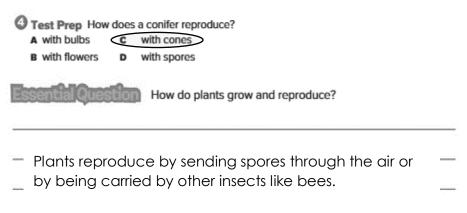
A plant structure that grows around the seeds of flowering plants.

Sequence What is the life cycle of a flowering plant?



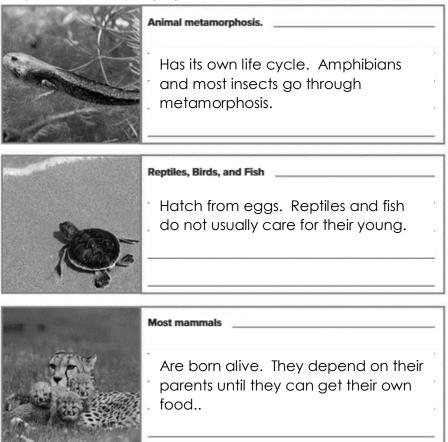
Critical Thinking How do animals help flowering plants?

By carrying pollen between plants and by spreading seeds.



Visual Summary

Complete the lesson summary in your own words.

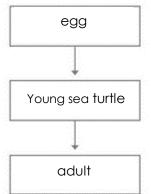


Think, Talk, and Write

O Vocabulary What is metamorphosis?

A series of changes and animal goes through in a life cycle.

Sequence Name three stages in a sea turtle's life cycle. Put them in order.



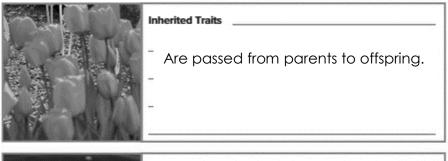
Critical Thinking Do you go through metamorphosis? How do you know?

No, when humans are born they have many adult features.

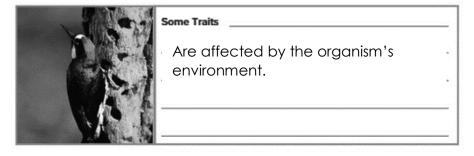
Test Prep An iguana's life cycle would be <u>most</u> like a
 A turtle's. c fly's.
 B cheetah's. p bear's.
 How are all living things alike?

Visual Summary

Complete the lesson summary in your own words.



0	Learned Traits
18 Martin	 Are new skills an organism gains during its life.

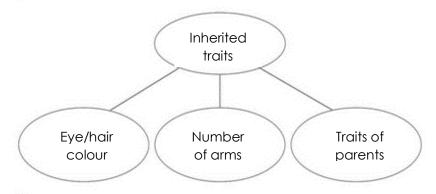


Think, Talk, and Write

O Vocabulary What is heredity?

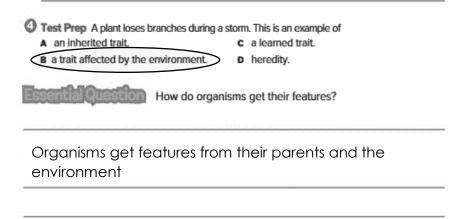
The passing on of a trait from parent to child.

O Main Idea and Details What is an inherited trait? Give examples.



Critical Thinking Why do you look the way you do?

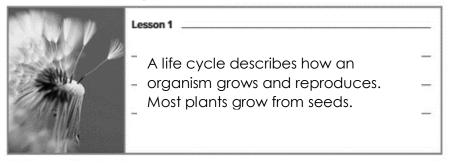
I look the way I do because I inherited traits from my parents. Other traits are from my environment.

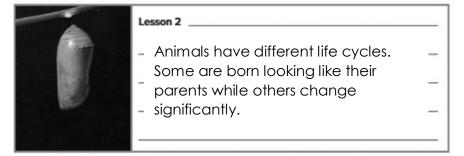


CHAPTER 3 Review

Visual Summary

Summarize each lesson in your own words.







Lesson 3

Organisms have traits that they inherit their parents. Some have learned traits or from their environment.

Vocabulary

Fill each blank with the best term from the list.

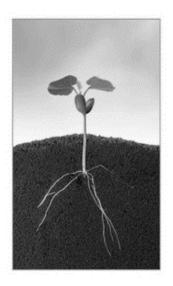
cone	life cycle	
egg	metamorphosis	
heredity	pollination	
inherited traits	seed	
larva	trait	
1. An amphibian t	eggins its life as an _ egg	<u></u>
2. A conifer's see	ds are made inside a 🚆 CONE	<u></u>
3. An organism go	oes through stages that make up its .	life cycle
4. Some organism	ns, such as caterpillars, go through a	
metamor	phasis – in which their body cl	hanges shape.
5. The passing of	traits from parents to young is known	as
- heredit	у <u></u> -	
6. A structure that	t can grow into a new plant is called a	seed
7. A feature of a liv	ving thing is called a trait	
8. Animals and wi	nd help plants reproduce through .	pollination
9. Traits that an or	ganism gets from its parents are calle	d
— Inherite	ed traits	

10. When an insect hatches from an egg, it is called a ... | Orvo

	المهارات والمتاهيم
IS	wer each of the following in complete sentences.
1.	Sequence List the stages of a flowering plant's life cycle in the correct order.
2.	Personal Narrative Describe how you use learned traits during the course of a typical school day.
3.	Predict A ripe apple falls to the ground. How can this help an apple tree reproduce?
4.	Critical Thinking How could the environment affect a bird's life cycle?

Conception of the local division of the loca

- 15. What is happening in this picture? Which part of a life cycle does this picture show?
 - At this stage of the life cycle the seeds have
 - developed and are traveling to the soil so new plants can grow.





16. How do living things change?

Circle the best answer for each question.

- What contains the seeds in flowering plants?
 - A cone
 - B bulb
 - C) fruit
 - D tuber
- Which animal goes through a stage of its life cycle in which it can breathe with gills?
 - A ladybug
 - B cheetah
 - c turtle
 - D frog
- Wind, insects, and animals help plants reproduce by bringing together eggs and
 - A pollen.
 - B oxygen.
 - C organisms.
 - D water.

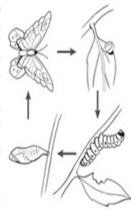
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5

- 4. Which of the following nonliving parts of an environment do all living things need to survive?
 - A rocks and water
 - B water and air
 - C water and fire
 - D fire and food
- What provides a seed with energy for germination?
 - A stored food
 - (B)soil
 - C air
 - D fruit
- 6. What is the correct order for a growing plant?
 - A spore, seed, seedling
 - B seed, spore, seedling
 - C seed, seedling, adult plant
 - D seedling, adult plant, seed

Answer the following questions.

Refer to the diagram to answer questions 7–9.



7. What is shown in the diagram above?

Life cycle

8. The pupa stage is between what two stages?

Larva and adult

 In which stage does a female butterfly produce eggs?

adult

 Fill in the chart below. Write yes if the trait is inherited. Write no if the trait is not inherited.

E. language	D. hair color	C. riding a bicycle	B. eye color	A. scars	Trait	
no	yes	no	yes	no	Inherited	

List two traits that are inherited. Include one animal trait and one plant trait. Fur colour, eye colour, flower colour, size

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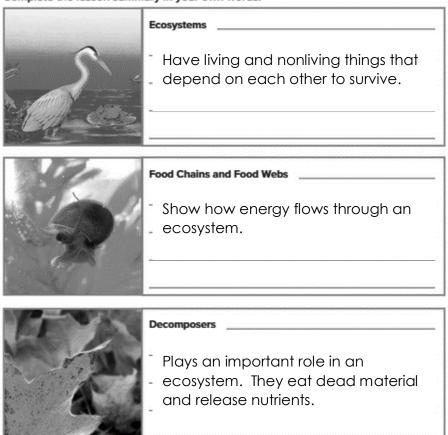
12. Organisms almost never look exactly like either parent. What explains this?

They inherit traits from mom and dad

^oage 135

Visual Summary

Complete the lesson summary in your own words.



Think, Talk, and Write

Vocabulary What is a consumer?

An organism that eats another organism.

Infer How does it help an animal to be part of more than one food chain?

Clues	What I Know	What I Infer
Animals compete for food.	There might not be enough of one kind of food.	More food is available in other food chains.

Critical Thinking How do both plants and animals depend on decomposers?

Decomposers recycle nutrients that help plants grow. Animals might depend on these plants for food.

Test Prep Most producers get their energy from A sunlight. c predators.

B consumers. D rocks.

How do living things interact?

151 EVALUATE LESSON 2 Lesson Review

Visual Summary

Complete the lesson summary in your own words.

Adaptations are Structures or behaviours that help an organism to survive in its environment.	-
Plant Adaptations Include Fuzzy leaves, pointed leaves and shallow roots.	-
Plant Adaptations Include Camouflage, mimicry, migrating, hibernating	

Think, Talk, and Write

O Vocabulary What does the word nocturnal mean?

Camouflage, mimicry, migrating, hibernating

Predict What might happen to an arctic willow plant if you moved it to a tropical rain forest?

What I Predict	What Happens
Plants do not survive	Dies, not adapted

Critical Thinking Compare two or more organisms from this lesson. Explain how the organisms are alike and different.

Test Prep Why do some animals migrate? A to escape prev B to avoid cold weather c to find their families b to make a change How do an organism's traits help it survive?

An organism's traits help it get food and water, avoid – danger, and reproduce.

CHAPTER 4 Review

Visual Summary

Summarize each lesson in your own words.

14	Lesson 1
	Food chains and food webs show how organisms in an ecosystem depend on one another.
10 13	Lesson 3

20 10	Lesson 3
P	Plants and animals have
	adaptations that help them survive.
a rouge to a	

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Vocabulary

Fill each blank with the best term from the list.

adaptation	decomposer	food chain	nocturnal
camouflage	desert	forest	producer
hibernation			
2. In an ecosyste	that has many trees is cal m a — Food chair asses from one organism t	Shows	
571	is active at night is n		•••
4. A structure or	behavior that helps an org	ganism survive in	
an environmer	nt is an <u>daptat</u>	ion —	
5. An organism th	nat makes its own food is o	alled a	
 An adaptation helps an anima 	er <u> </u>	ment.	
make up an	ecosystem —		
8. An organism th	hat breaks down dead pla	nts and	
animals is calle	ada decompo	ser	
9. Going in deep	sleep in winter to survive v	winter is called hibe	ernation

CHAPTER 4 Review Skills and Concepts Answer each of the following. 10. Infer Is it possible to have more than one producer in a food chain? Could there be more than one consumer? Image: State of the following in the state of t

12. Critical Thinking Imagine that you are taking care of plants and animals in a desert ecosystem. What kind of environment you would cerate for them to live in?

- 13. Critical Thinking How can an organism's color protect it?
- **14.** Predict What do you think would happen if a fish that lived in freshwater was placed in an ocean? Explain.
- 15. What are the traits that would help the animal shoen in the picture to survive cold environment?



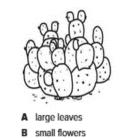
- 2.29
 - 16. How do living things survive in their environments?



Test Prep

Circle the best answer for each question.

 Which adaptation most likely helps this cactus survive in a desert ecosystem?



- C a waxy stem
 - D a waxy flower
- The porcupine below has sharp quills.



How do the porcupine's quills help it survive?

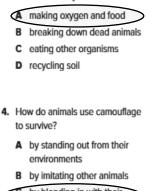
- A The quills keep the porcupine warm.
- B The quills help the porcupine catch food.
- C The quills protect the porcupine from predators.

D The quills allow the porcupine to get oxygen.

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Chapter 4 • Test Prep

Which <u>best</u> describes a green plant's role in an ecosystem?



- C by blending in with their environments
 - D by giving warning calls
- The table below shows the number of birds in a wetland ecosystem.

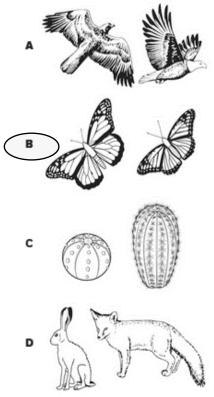
Season	Number of Birds
summer	700
winter	60

What most likely explains the difference between seasons?

- A Many birds drown when the ice melts in the fall.
- B Many birds are killed by predators in the spring.

 Many birds die when the winter becomes cold.

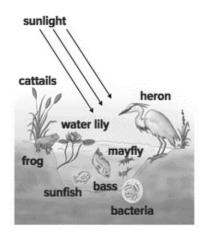
D Many birds migrate south for the winter. Carlos made a poster showing an example of mimicry. Which poster below is his?



 Name a producer in an ocean ecosystem.

Algae is a producer.

Use the illustration below to answer question 8.



 Frogs and bass eat mayflies in this pond ecosystem. In spring, temperatures were cold. Few mayflies survived.

> How will the pond food web be affected in summer?

In summer frogs will have fewer mayflies to eat.

Some frogs will die.

The bird will not have a lot to eat because it eats the bird.