

Q	TEACHER GUIDE	
	• Assessment Rubric	4
	How Is Our Resource Organized?	5
	Bloom's Taxonomy for Reading Comprehension	6
	• Vocabulary	6
	STUDENT HANDOUTS	
	Reading Comprehension	
	1. What Do We Classify?	7
	2. Formal Classification	•••
	3. Warm-Blooded Animals vs. Cold-Blooded Animals	•••
	4. Vertebrates	
	5. Invertebrates	
	6. Animal Adaptations	
	7. A Case Study: The Koala and Its Adaptations	
	8. Evolution and the Fossil Record	
	• Hands-on Activities	11
	• Crossword	15
	• Word Search	16
	Comprehension Quiz	17
EZ	EASY MARKING™ ANSWER KEY	19
	MINI POSTERS	21

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- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC4501 or Classification & Adaptation
- Enter pass code CC4501D for Activity Pages..



	U Before
13	•••••

e You Read

NAME:

What Do We Classify?

1. Fill in each blank with a word from the list. You may use a dictionary to help.

classify organism senses biologist c	ategory
a) A group of things that are classified together is called	
b) To something means to divide things into grassimilarities.	oups based o
c) People use their five describe something. (sight, touch, smell, sound,	taste) to
d) Someone that studies living things is called a].
e) A living thing such as a plant or animal is called a(n)	
Underneath your definition, draw a picture showing a biologis work.	
LASSROOM COMPLETE PRESS 7	

What Do We Classify? 1. Put a check mark (\checkmark) next to the answer that best finishes the sentence. a) You can describe an elephant using the following sense **A** just sight (your own eyes). **B** all senses (sight, sound, taste, touch, smell). C it's hard to describe an elephant because O **D** a dictionary and a camera. b) To classify something means to... A say whether they are good or bad. OB divide something based on their ag O **c** group or categorize something based on one of their characteristics. study how it survives in its environ c) Biologists are people that study... • A the biosphere. OB only humans and how they interact with

d) Biologists know that if two organisms look very similar, then they...

B must live in the same environment
C must eat the exact same food for energy.

NAME:

After You Read

O **c** rocks and minerals. O **D** living things.

A are likely related.

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2. Circle the word True if the statement is true. Circle the word False if it	•
is false. a) We can classify a mouse by saying that it is an animal with gray skin. True False	•
 b) Organisms have to be classified by what they look like. True 	•
Biologists study both living and non-living things.	,
• True False	
 d) When biologists classify, they look for similarities and differences between organisms. 	
• True False •	

9

NAME:





What Do We Classify?

hink about an elephant. In your mind, can you picture what it looks like? How would you describe it to someone who has never seen one before? You probably visualized a large trunk, gray leathery skin, big ears, heavy feet and a skinny tail. Is that what you imagined?

Everything we just described used your eyes to describe the elephant. You just **classified** an elephant! To **classify** something means to group or to categorize something based on something about them. This time, you used you group of animals that, for example, have gray skin.



wn eyes to put the elephant into a

Elephants and other **organisms** do not only have to be classified by what they look like. You could classify organisms using another sense. You could use your sense of touch, smell, sound, or even taste! Not that you ever want to know what an elephant tastes



family!

Classification & Adaptation CCP4501-1

Can you describe an elephant using your senses of smell

Biologists are people that study living things. Part of their job is to classify organisms. They need to organize all things that live on the Earth! They classify organisms into different categories or groups. Biologists know that if two organisms look very similar,

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then they are likely related. Do people ever tell you that you look like your brother or sister? You probably look similar because you are related. You are part of the same

Classification & Adaptation CCP4501-1

ЛF:			



nswer the	questions in complete senter	ices.
What ser	ses could you use to describe o	an animal? Give an example for ed
. What is th	e most important job that a bio	ologist has?
How do h	iologists classify organisms?	S

Extension and Application

6. Use your senses to describe an animal of your choice!

Your job is to classify an animal. It can be any animal you like! Pick one animal and use the five senses to describe your onimal.

eate a chart that shows the following 5 senses and On your piece of paper, your descriptions:

• sight • **f** uch taste • sound

7. You are the World's #1 Biologist!

You have been hired as the country's leading biologist to work on a project. Congratulations! Your job is to classify the following 10 animals. The tricky part is that you have not been told how to classify these animals. It is up to you! You will copy the loanimals down onto your paper and then put on your biologist uniform and start your work! Remember, a biologist uses their senses to classify organisms. You will need to put these animals into groups. Clue: Look for similarities and differences between these animals... You may use research tools for help.

> Monkey Dog Bear Kangaroo **Tiger** Frog Giraffe Fox Whale Fish







Brush Up on Your Classifying Skills!

Let's remind ourselves what it means to classify something It means to divide things into groups based on simil This makes it easier for us to study things

In this activity, you will brush up on your own classifying skills!

Look through a magazine and cut out ten pictures you see of an animal. Look for pictures showing many <u>different</u> kinds of animals: big, small, fury, frightening, slimy, etc.

Can you think of any other adjectives to describe animals?

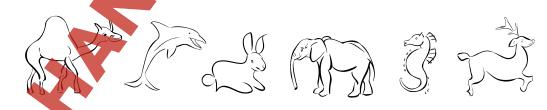
Once you have cut out your ten pictures, arrange the pictures on a piece of paper. You are ready to brainstorm how you are going to classify your animals. You are going to divide your group of animals into small groups.

How are you going to divide up the animals? Look for **similarities** and **differences** between the animals. Here's a clue: you've already read some ideas about how you can classify animals earlier in this question!

Using a large piece of Bristol board, present your classification. Display your classification groups in a creative way.

On your Bristol board, you should include the following:

- Glued on images of the ten animals (organized in their groups)
- Labels showing how you have classified the animals
- A half-page write-up explaining how you classified your animals







Classification & Adaptation CCP4501-1





NAME:

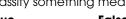
Comprehension Quiz



Part A

Circle) the word True if the statement is true. Circle) the word False if it is false.

1. To classify something means to divide things into groups based on similarities.



2. Biologists are scientists who study evolution and fossils.

3. The difference between warm-blooded and cold-blooded animals is their ability to control their own body temperature.

4. There are more invertebrates living on Earth than vertebrates.

False

5. Invertebrates are organized the same way as vertebrates. They also have a backbone.

6. Animals adapt their physical features over long periods of time so that they survive in their habitat.

True False

7. The koala has two opposable thumbs on each hand which gives it excellent grip for swinging in trees.

False

8. Scientists study evolution by re ading newspaper reports from hundreds of years ago. These reports show how life on Earth has changed over time.

True

True

Part B

Label each picture below as either a vertebrate or an invertebrate.



b)

SUBTOTAL: /14

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c)



After You Read

NAME:

Crossword Puzzle!

Across 1 when things are divided into groups based on similarities a person who studies living things describes an animal that is able to stay at the same body temperature

a single organism 10 the surroundings where an animal

12 a scientist that studies fossils

Down

- 1 an animal that cannot control their own body temperature
- 2 describes something where the left side is the mirror image of the right side
- a living thing such as a plant or animal
- a physical feature that h been changed for surviv purposes
- the group of invertebrates including snails and slugs the change of populations of
- living organisms over time 11 an animal that has a backbone
- 13 energy that comes from the sun
- 14 the remains of an animal or plant that are preserved

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Word List: biologist, classification, coldblooded, environment, evolution, fossil, mollusk, organism, paleontologist, physical adaptation, solar, species, symmetrical, vertebrate, warmblooded

Classification & Adaptation CCP4501-1

Animal Adaptations



Cheetah Adaptation: run fast Advantage: able to catch fast-moving prey



Eagle Adaptation: good eyesight

Advantage: able to see prey from far away



Giraffe

Adaptation: long neck Advantage: able to eat leaves on tall trees



26

NAME:	

After You Read



What Do We Classify?

Answer the questions in complete sentences.

- **3.** What senses could you use to describe an animal? Give an example for each.
- **4.** What is the most important job that a biologist has?
- **5.** How do biologists classify organisms?

Extension and Application

6. Use your senses to describe an animal of your choice!

Your job is to classify an animal. It can be any animal you like! Pick one animal and use the five senses to describe your animal.

On your piece of paper, create a chart that shows the following 5 senses and your descriptions:

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> **Monkey** Kangaroo Giraffe

Dog **Tiger** Fox

Bear Frog Whale

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Fish

Classification & Adaptation CCP4501-1

Sight, sound, smell, touch, taste (Answers will vary)

4.

Classify organisms

5.

Classify into different categories or groups



- **1.** 37° F (same temperature as its surroundings)
- 2. 100° F (temperature of most mammals when active)
- 3. 107° F (temperature of most birds when active)
- 4. No can only swim to the surface where there is more sunlight on a sunny day
- 5. Fairly well it has fur and layers of fat to insulate it
- **6.** Not well it has scales rather than fur and very little body fat
- 7. Body temperature drops as the temperature of its surroundings (water or air) drops



SWER KEY





