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• How Is Our Resource Organized?	
 Bloom's Taxonomy for Reading Comprehension 	
• Vocabulary	
STUDENT HANDOUTS	
 Reading Comprehension 	
1. What Do We Classify?	
2. Formal Classification	
3. Warm-Blooded Animals vs. Cold-Blooded Anim	mals
4. Vertebrates	
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• Hands-on Activities	
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EASY MARKING™ ANSWER KEY	

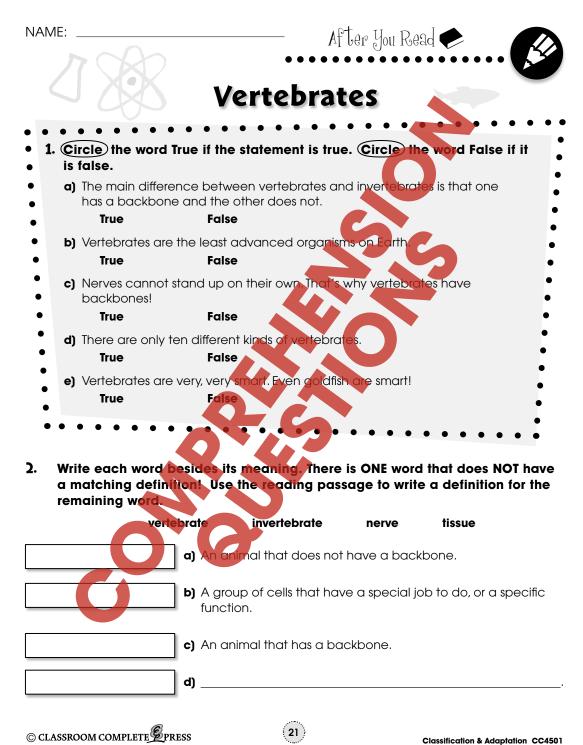
✓ 6 BONUS Activity Pages! Additional worksheets for your students

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





MINI POSTERS 55



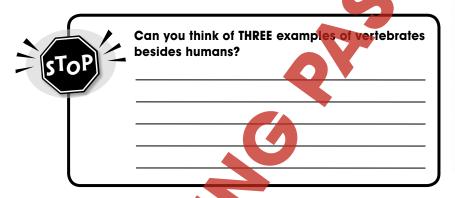


Reading Passage

NAME:

Vertebrates

Il animals can be classified into two groups: vertebrates and **invertebrates**. How do we tell them apart? Here is a clue: What do humans have inside them that make them stand up straight and tall? Yes, a backbone! Humans are classified int category in the animal kingdom called vertebrates. Vertebrates animals that have a backbone (a "vertebrae"). Invertebrates do have a backbone.



Vertebrates are the most advanced organisms on Earth. What makes them so special are their backbones. Think of the human body. We all have nerves that run along our back. Nerves are the stringy bands of tissue that connect the nervous system with other organs. These nerves cap't stand up on their own! They need support and protection. That's why vertebrates have backbones.

There are 50 000 vertebrates on Earth. That seems like a lot, but compared to invertebrates, there are not that many species of vertebrates. Vertebrates are very, very intelligent this includes you! Most vertebrates have very advanced nervous systems. I bet you don't think a goldfish is very smart. A goldfish is a vertebrate though. Compared to a tiny invertebrate, a goldfish is as smart as Einstein!

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After You Read

nerves

tissue

Vertebrates

3. a) Circle the animals that can be classified as vertebrates

snail grizzly bear human snake

b) Circle the words that are associated with a vertebrate

insect c) Circle the words that describe the functions of a backbon

intelligence support protection

backbone

Extension and Application

4. A Backbone Illustration! Pretend you have just graduated from drawing school and you have been given your first job. You have been hired to illustrate a book on human anatomy. **Anatomy** studies the physical features of an animal, in this case, a human! You will use research tools (the internet and books) to gather information about what a backbone looks like. Can you picture what your own backbone might look like?

On a blank piece of paper, draw a picture of the human backbone. Remember that it is very important that anatomy drawings are **labeled** properly. There might be many details that you want to include in your drawing, so use a pencil.

5. One of 50 000 Vertebrates!

There are 50 000 vertebrates living on Earth! This means you have A LOT of choice. **Pick one** vertebrate. (Use your imagination – pick an animal you have not read about yet. Or even better, one you have never heard of before!).

Design a brochure with information in it about your vertebrate. In your brochure, include:

- the name of your vertebrate
- a drawing of your vertebrate (use a pencil!)
- the vertebrate's formal classification (kingdom, phylum, class, order, etc.)
- why your animal can be classified as a vertebrate
- any other interesting information about your animal

Use the graphic organizer on the next page to help you collect your information. Make your brochure as visually appealing as possible! Use colored pencils or markers to add color.



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A Day in the Life of a Paleontologist!

In this activity, you will pretend you a paleontologist and head out into the field! Your 'field' for this activity will be the schoolyard. In groups of 3 or 4, you will investigate what life is in your schoolyard. You might not find fossils from 500 years ago, but you will definitely find something to give you a glimpse of evolution in the schoolyard.

On your trip, you will need to bring the following:

- Pencil
- Paper (for recording what you find, and where you found it)
- A bucket or container to collect rocks
- Digging tool (small shovel or sandbox shove)

When you are out in the schoolyard, pick an area that is going to be your dig site. Don't pick too large an area - you don't want to dig up too much of the playground!

Look for rocks and stones that appear different from typical, round and smooth rocks. Look for patterns, lines, different textures, etc.

Once you have collected enough evidence on your dig, return to the classroom and record your observations. In your notebook, write up a report answering the following questions:

- Where in the schoolyard did you carry out your 'dig'?
- What kind of vegetation was there at your dig site? (grass, gravel, etc.)
- Did you find any rocks that looked interesting? Describe them.
- Did you find any rocks that had a pattern on them?
- What did the patterns look like?
- Do you think you found a fossil?

Once you have answered these questions, draw a picture showing you working at your dig site. Next to this picture, draw a picture of all the items (for example, rocks) that you found at your dig site.





Classification & Adaptation CC4501





NAME:

Comprehension Quiz



Part A

True

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.

True

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

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

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

False

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

True

Part B



/14

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

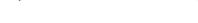
b)







c)



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SUBTOTAL:



Crossword Puzzle!

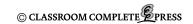
NAME:

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 ha 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

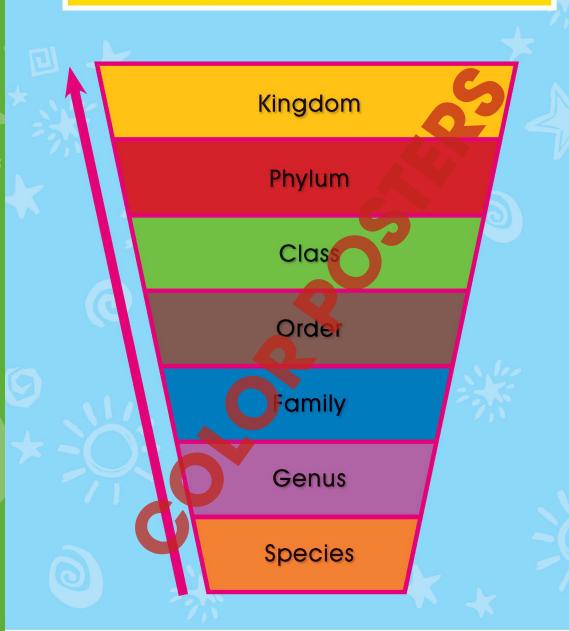




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After You	Read 🖊
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NAME: _____

Warm-blooded vs. Cold-blooded Animals

3.	Classify the following animals into two groups: WARM-BLOODED ANIMALS and
	COLD-BLOODED ANIMALS. You might need to use research tools to find out more
	about each animal. Once you have divided them, explain what the difference is between the two groups.
	beiween me iwo groups.

b) The difference between cold-blooded and warm-blooded animals is

		•					
	frog	human	snail	eagle	dog	spider	
a)	Cold-blooded Animals			W	Warm-blooded Animals		
	_						
•							

Extension and Application

snake

4. Design a Poster! We read about how the cold-blooded frog controls its body temperature. It might lie on a sunny rock to warm up its body. Or, it might bury under a rock to cool off its body. Use your imagination to think of what the following coldblooded animals might do to control their body temperature. **Pick one** of the animals

from the list below. Draw a picture showing these two how the animal warms up its body temperature ow the animal cools off its body tempera

crocodile eel

salamander

Don't forget to label your picture. Use your imagination!

lizard

- 5. A conversation between a cold-blooded animal and a warm-blooded animal! Pretend you hear a conversation between a cold-blooded animal and a warm**blooded animal**. Using a dialogue structure (Animal #1 says..., Animal #2 says....) write down the conversation you hear. Your conversation should include the following information:
 - the names of the animals (pick two)
 - what makes them either cold-blooded or warm-blooded
 - how they control their body temperature
 - the difference between the two animals





Classification & Adaptation CC4501

a) cold-blooded: frog, snail, spider warm-blooded: human, eagle, dog

b) Accept any

reasonable answer

4. nswers will vary

1 (D

Group of cells that have a specific job to do

a) True

b) False

c) True

d) False

e) True

a) human, grizzly bear, deer

b) backbone, nerves, tissue

c) support, protection

Answers will vary

Answers will vary

Answers will vary

c) vertebrate

d) nerve: stringy bands of tissue that connect the nervous system with other organs



Answers will vary