

Zoo Words

LIGHTNING LESSON

Zoos are all about the animals. In fact, if you see the letters Z-O-O at the beginning of a long word, you can guess that word has something to do with animals.

zoology = “the science of animals”

zoophobia = “fear of animals”

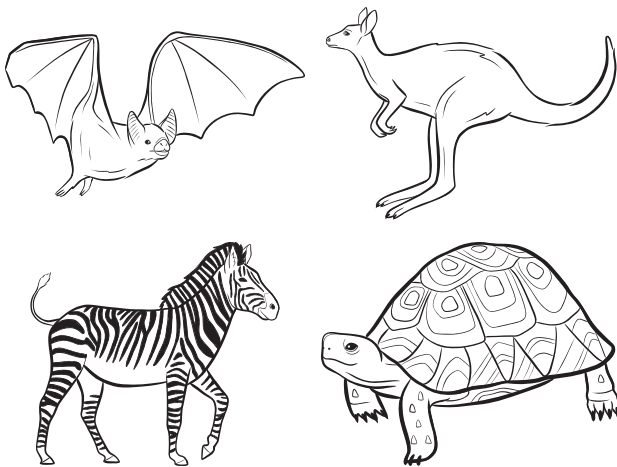
Two Types of Animals

LIGHTNING LESSON

There are millions of different types of animals, but they all belong to two main groups: **vertebrates** and **invertebrates**.

Vertebrates

These animals have a backbone.



Less than

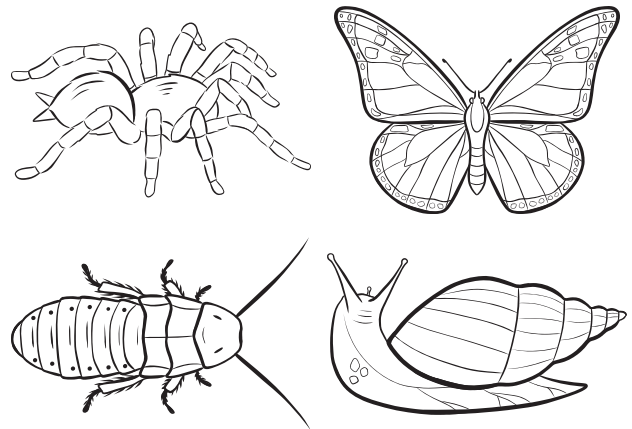
5%

of all animals
are **vertebrates**.

Vertebrates
Less than 5%

Invertebrates

These animals do not have
a backbone.



More than

95%

of all animals
are **invertebrates**.

Some invertebrates have a hard outer covering or shell, while others do not.

Invertebrates
More than 95%

Giraffe vs. Jellyfish

Remember, there are two main groups of animals.

🐾 Vertebrates have backbones. A giraffe is a vertebrate. A backbone helps a giraffe stand up so straight and tall.

🐾 Invertebrates do not have backbones. A jellyfish is an invertebrate.* Without a backbone, a jellyfish is able to flow gracefully in the ocean currents.

* We will learn that all fish are vertebrates. But jellyfish are not actually fish! That is why many scientists and aquariums just call them *jellies*.

Let's Play a Game!

The game is called "Giraffe vs. Jellyfish." Here's how we play this game:

1. I will call out the name of an animal.

🐾 If that animal has a backbone, then it is a vertebrate.
Stand up straight and tall just as a giraffe does.

🐾 If that animal does not have a backbone, then it is an invertebrate.
Jellies can't stand up, so you shouldn't either. Slump down in a puddle.

2. If we disagree, we can talk it out and make a decision as a class.

Name of Animal

Class's Answer

Correct Answer

1. gorilla	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> vertebrate
2. cat	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> vertebrate
3. dolphin	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> vertebrate
4. worm	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> invertebrate
5. ladybug	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> invertebrate
6. cobra	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> vertebrate
7. eagle	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> vertebrate
8. caterpillar	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> invertebrate
9. grasshopper	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> invertebrate
10. YOU	<input type="checkbox"/> vertebrate <input type="checkbox"/> invertebrate	<input checked="" type="checkbox"/> vertebrate