

# 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”

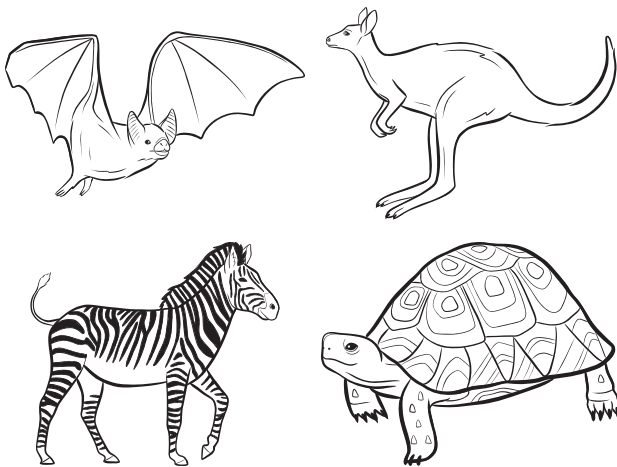
## Two Types of Animals

## 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

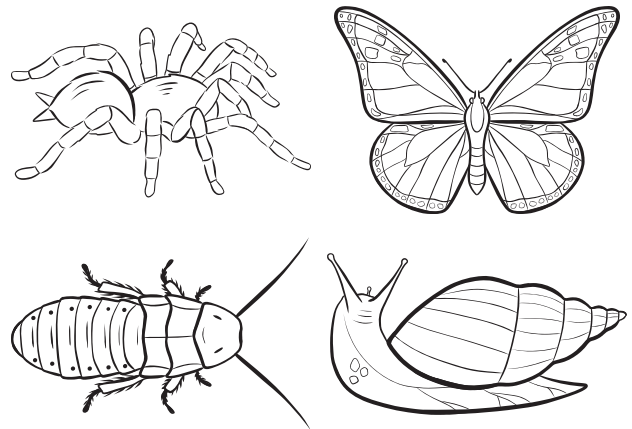
**5%**

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**.

**Invertebrates**  
More than 95%

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

# 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