

Name: _____

Date: _____

SKELETONS

Introduction

Different animals have different types of skeletons.

Vertebrates are animals that have backbones and an **endoskeleton** (skeleton inside their bodies).

Invertebrates are animals that do not have backbones. Invertebrates can have a skeleton outside their bodies called an **exoskeleton**, while some invertebrates have no skeleton at all! In fact, the majority of animals on Earth are invertebrates.



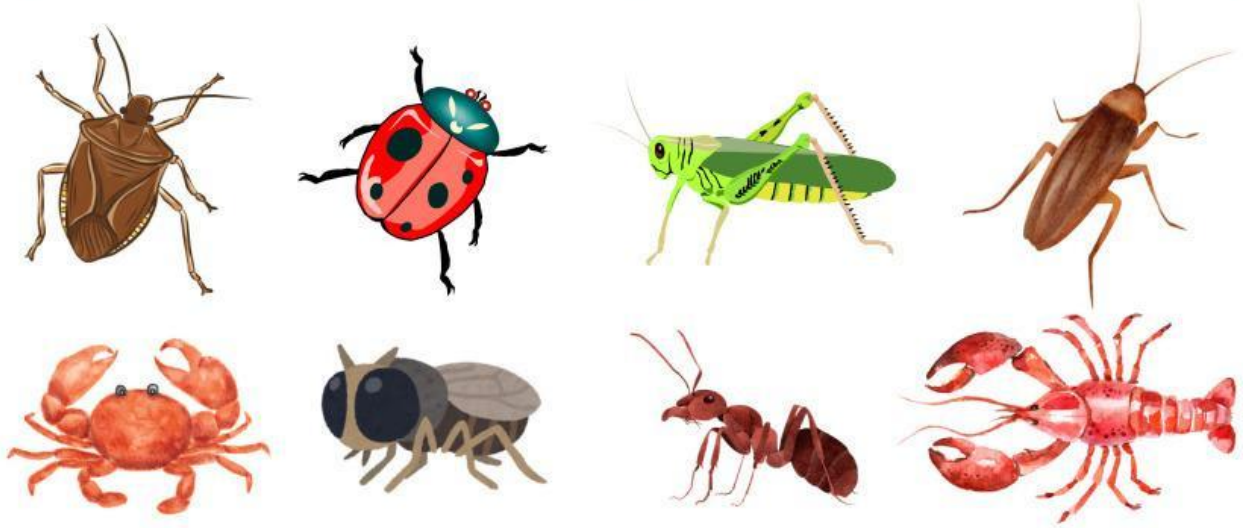
Invertebrates with exoskeletons

Insects, spiders and shellfish are some of the invertebrates that have **exoskeletons**. The exoskeleton provides them with strength and support, as well as protecting the organs inside their bodies.

To grow, animals with exoskeletons need to shed their old skeleton and grow a new one. Furthermore, animals with exoskeletons can only grow to be a certain size, because if the exoskeleton gets too large the animal's muscles cannot move it.

However animals with exoskeletons that live in the water can grow to bigger sizes, since the water buoys up the skeleton, so that it does not feel so heavy.

Invertebrates with exoskeletons



Invertebrates without skeletons

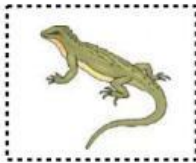
Invertebrates without skeletons include centipedes, millipedes, worms, jellyfish, octopuses and squids. Because these animals have no hard bones, they are extremely flexible.

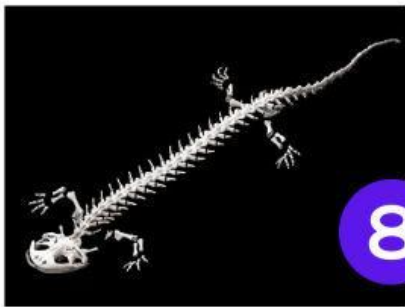
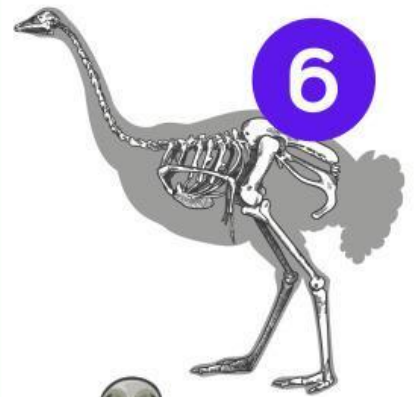
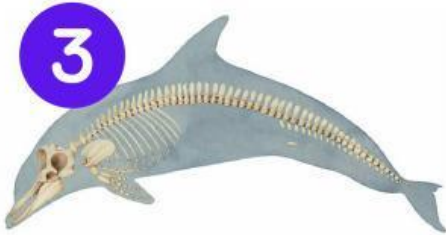
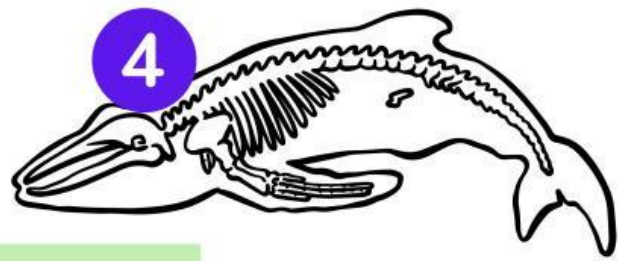


Activity 1

Drag and drop the images in the correct category

Vertebrate with endoskeleton	Invertebrate with exoskeleton	Invertebrate without a skeleton





Which animal does the skeleton belong to?
(write the number)

- a. lion _____
- b. whale _____
- c. frog _____
- d. salamander _____
- e. penguin _____
- f. snake _____
- g. fish _____
- h. bat _____
- i. turtle _____
- j. crocodile _____
- k. dolphin _____
- l. rabbit _____
- m. ostrich _____

Let's check what we have learned:



- A skeleton on the inside of an animal is called:

- ☐ An endoskeleton
- ☐ An exoskeleton
- ☐ A hydrostatic skeleton

- A skeleton on the outside of an animal is called:

- ☐ An endoskeleton
- ☐ An exoskeleton
- ☐ A bone

- Some skeletons have to be shed so an animal can grow, These skeletons are:

- ☐ Endoskeletons
- ☐ Exoskeletons
- ☐ Hydrostatic skeletons

- This animal sheds its skeleton

- ☐ Crab
- ☐ Snake
- ☐ Jellyfish

- An animal with a backbone is called

- ☐ A vertebrate
- ☐ An invertebrate