Circle all the animals.



Images (top left to right): Brilliance stock, suns07butterfly, K.Decor, Valentina Razumova, grey_and, Scisetti Alfio, Vladimir Volodin, COZ, pan demin, Daniel Prudek, Eric Isselee, Bildagentur Zoonar GmbH/Shutterstock.com



KEY TERMS

eukaryotic

a type of cell that contains a nucleus and other small structures

heterotrophic

must consume parts of other organisms (living or dead) as food

multicellular

made of many eukaryotic cells

Match the key term with the correct field.

MEMORY DEVICE

YOU are (eukaryotic) YOU-karyotic. Organisms are made up of very small building blocks called cells. Animals, including humans, are made up of cells that contain a nucleus.

Another feature that animals have in common is that they contain more than one eukaryotic cell, so they are .

Unlike plants, animals need to eat other organisms for food and are therefore



#2



KEY TERMS

invertebrates

animals that do not contain a backbone

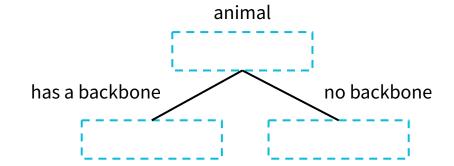
kingdom

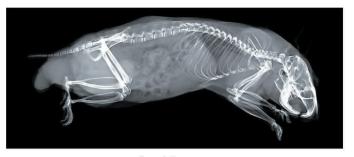
the highest level of classification (taxa)

vertebrates

animals that contain a backbone

The Animal kingdom consists of two groups, those which have a backbone and those which do not.







backbone

no backbone

Images (left to right): BillieBonsor, Valentina Razumova/Shutterstock.com



KEY TERMS

exoskeleton

an external support that some invertebrates have to protect the body

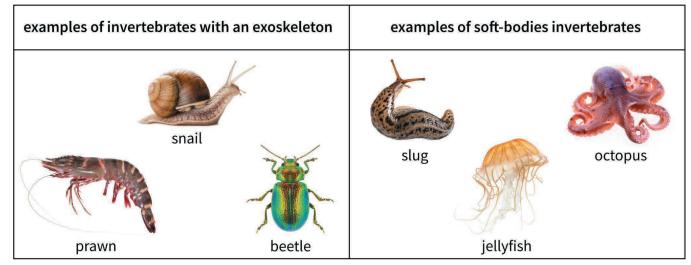
invertebrates

animals that do not contain a backbone

The majority (98%) of animal species are

Some invertebrates, such as crabs, snails, and beetles, have an

that gives support to the organism on the outside. Other invertebrates, such as jellyfish and octopus, have soft bodies.



Images (left to right): COZ. Aleksandar Dickov, Anton Kozyrev, Eric Isselee, pan demin/Shutterstock.com

Cows are heterotrophs. Which statement is correct:

- A Heterotrophs need to eat other organisms for energy.
- B Heterotrophs can produce their own energy from sunlight.



Image: Eric Isselee/Shutterstock.com

Which of the following is the correct classification for these animals?

Λ
A

В

vertebrate	invertebrate
worm	dog
dog	worm



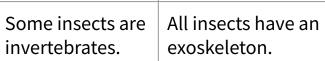
Images (left to right): SasaStock, Valentina Razumova/Shutterstock.com

Tick the correct statement.

A

Some insects are	All insects have an
invertebrates.	an exoskeleton.
All insects are	Some insects have













Images (top left to right): suns07butterfly, anat chant, Anton Kozyrev, guy42/Shutterstock.com

#7 **Check for understanding** Prior knowledge **Application** Theory





Classify the following animals by placing a **tick** in the correct column.

type of animal	eukaryotic	multicellular	heterotroph	vertebrate	invertebrate
human					
rabbit					
jellyfish					
frog					
dragonfly					

Images (top lo bottom): Dasha Petrenko, Eric Isselee, Bildagentur Zoonar GmbH, Sergejus Byckovskis/ Shutterstock.com



Success measure

I can explain the common features of animals, and categorise examples as invertebrates and vertebrates.





What class are you in?

KEY TERMS

mammals

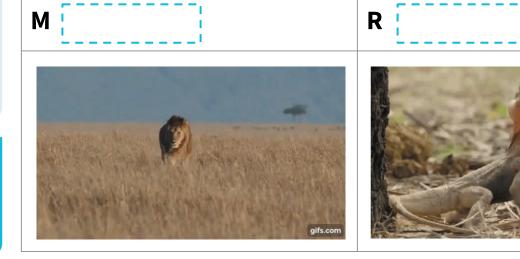
class of vertebrates with fur or hair, visible ears, that feeds milk to their young and has different types of teeth

reptiles

class of vertebrates with smooth, dry skin, and that mostly lay soft eggs

MEMORY DEVICE

MR FAB can help you remember the five vertebrate groups! Mammals, Reptiles, Fish, Amphibians, Birds. **MR FAB** is an acronym for the five classes of vertebrates.



What class are you in?

KEY TERMS

amphibians

class of vertebrates with moist smooth skin, lay eggs in water without a hard shell, have four legs or none

birds

class of vertebrates with feathers, that lays eggs with hard shells, has two legs

fish

class of vertebrates with scales that lays eggs in water without a shell, has a streamlined body and paired fins **MR FAB** is an acronym for the five classes of vertebrates.













#11

2

What class are you in?

I am a vertebrate, have scales and lay eggs in water.

Who am I?

Tick the correct answer.

- A a fish
- **B** an amphibian



2

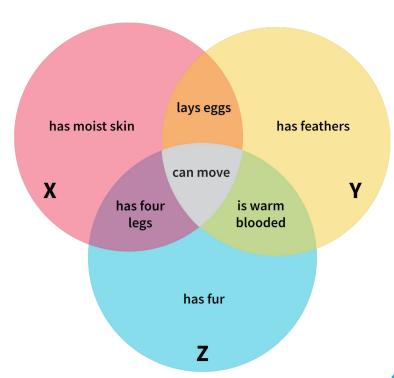
What class are you in?

Use the Venn diagram to to determine the classes of animals X, Y and Z.

Hint: Mammals and birds are warm-blooded. Reptiles, fish and amphibians are cold-blooded.

Tick the correct statement

- A organism Z could be a dog
- B organism Y could be a frog
- c organism X could be a parrot



#13

2

What class are you in?

I am a crocodile. I have smooth dry skin and I lay eggs.

Which class do I belong to?

- A reptiles
- **B** amphibians





What class are you in?



ClimateWatch is a citizen science program developed by EarthWatch Australia, the University of Melbourne, and the Bureau of Meteorology. It looks at the effect of temperature and rainfall on the seasonal behaviour of Australian animals and plants. It also contains lots of information about different species.

Go to https://www.climatewatch.org.au/ and download the free ClimateWatch app and use it to **complete the table**. An example of an amphibian has been completed for you.



Class of vertebrate	Common name (optional add photo)	Binomial name (from drop-down list in app)	Reason for classification in this class	Where to look to find this organism (from app)
Amphibian	Eastern banjo frog	Limnodynastes dumerilii	Has smooth, moist skin	South-eastern Australia, urban areas, near still water



Success measure

I can categorise examples of vertebrates according to their class.

