

A diagram is a type  
of model that can be  
used to show a  
real-world situation.  
Do you know of  
another type of model?



a physical model

Can dolphins and whales be considered as fish too? Why or why not?



They are not fish as they do not have gills to help them breathe underwater.



Look at the stickers of the animals at the back of the book. Using a source of information like books or the Internet, find out more about the animals. Use your research to classify each animal in the correct animal group.

Bird	Mammal	Reptile
		
Insect	Fish	Amphibian
		

## Problem-based Learning



### New animal spotted!

Imagine that you are a group of scientists exploring an island that no humans live on. You come across an animal that no one has seen before. You need to find out which animal group this animal belongs to.

1. Work in groups.
2. These are a few descriptions of the animal you saw:

It does not  
have scales.

It does not  
have feathers.

It does not  
have a pair of  
antennae.

Based on the descriptions shown, what are the animal groups this animal does not belong to?

1-Fish or Reptile (since it does not have scales)

2-Bird (since it does not have feathers)

3-insects (since it does not have a pair of antennae)

3. Write down the possible groups that this animal may belong to using these three descriptions.

It may belong to mammals or amphibians.

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4. Think of two questions that you can ask to help you to decide which group the animal belongs to.

1-Did it hatch out of an egg in water?

2-Does it have moist skin?

If the answer to these questions is 'yes', then the animal is an amphibian.

5. List down any further question or information you need to help you make the final decision.

1-Does it feed its young with milk?

2-Does it have fur or hair on its body?

If the answer to these questions is 'yes', then the animal is a mammal.

### Check Your Learning

What are the features of the six different groups of animals?



	Amphibians	Mammals	Birds	Reptiles	Insects	Fish
Reproduce	Lay eggs in water	Give birth to their young alive.	Lay eggs With hard shells	Lay eggs with leathery shells	Most insects reproduce by Laying eggs	Most fish reproduce by Laying eggs in water
Breath	As young they use gills to breathe. As adults they grow lungs to breathe.	With lungs	lungs	lungs		use gills to breathe underwater
Outer Covering	Moist skin without scales	Have fur or hair on their body	Covered with feathers	Have skin covered in dry scales		bodies are covered with scales