

# Science Explorer training

Complete five missions to become a qualified Science Explorer

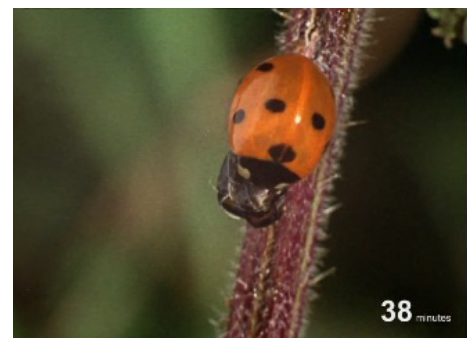
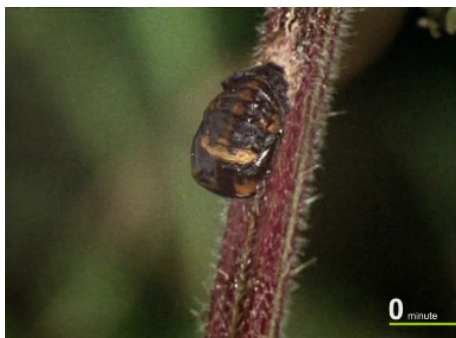


## Your mission: Observation

### Mission brief

**Observing** means using our senses to gather information. If we **observe** something over time, we can spot how it changes, or how long it takes for something to happen.

Look at the pictures, then answer the questions.



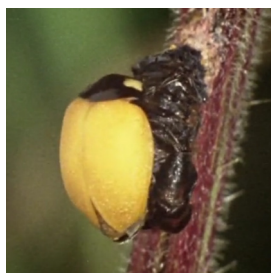
- 1) When is the ladybird first fully out of its case?
  - a) 14 minutes
  - b) 24 minutes
  - c) 7 minutes
- 2) How many spots does the ladybird have after 7 minutes?
  - a) 7
  - b) none
  - c) 4
- 3) How many spots does the ladybird have after 24 minutes?
  - a) none
  - b) more than 2
  - c) fewer than 2

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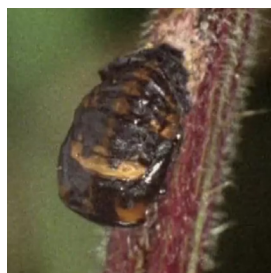
Unscramble the ladybird lifecycle and draw it in the box below.



Young adult



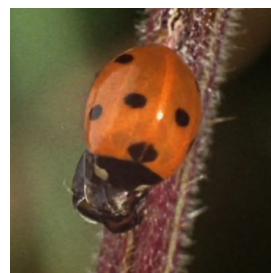
Larvae



Pupa



Egg



Mature adult

A large, empty rectangular box with a thin black border, intended for the user to draw the ladybird lifecycle.

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## Your mission: Patterns

### Mission brief

A pattern is when something happens again and again. Finding patterns helps us understand how things work.

Look at the boxes which show the number of days different animals are pregnant

Elephant  Pregnant for 645 days	Horse  Pregnant for 336 days	Mouse  Pregnant for 19 days	Cat  Pregnant for 64 days	Leopard  Pregnant for 93 days
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Write them down in order of length of pregnancy

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

Now, answer the questions below

- 1) How long is the cat pregnant for?
  - a) 64 days
  - b) 93 days
  - c) 19 days
- 2) What pattern can you spot?
  - a) bigger animals have shorter pregnancies
  - b) bigger animals have longer pregnancies
  - c) pregnancy time does not depend on size

Science Explorers

[www.bp.com/bpes/scienceexplorers](http://www.bp.com/bpes/scienceexplorers)

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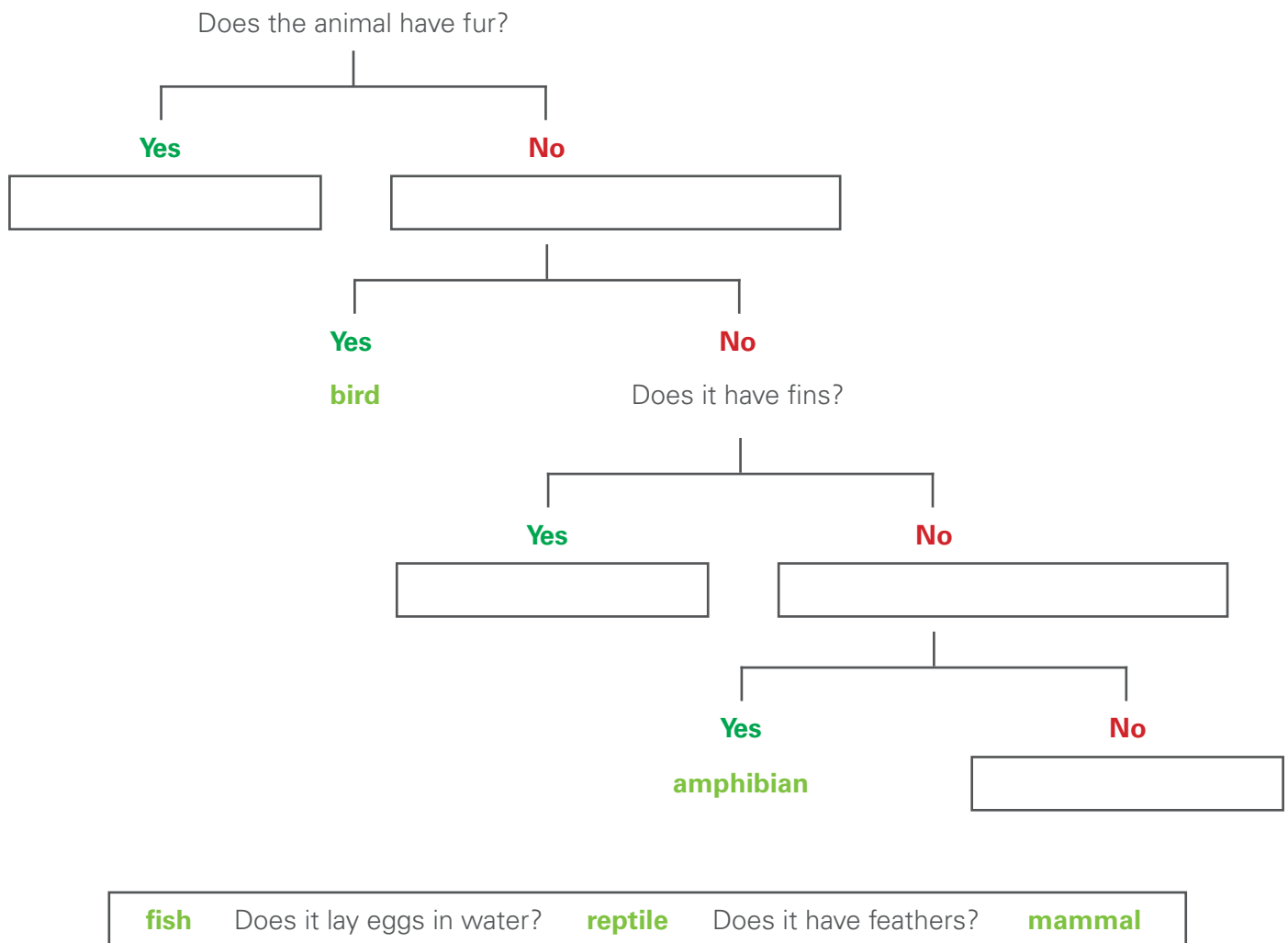


## Your mission: Grouping

### Mission brief

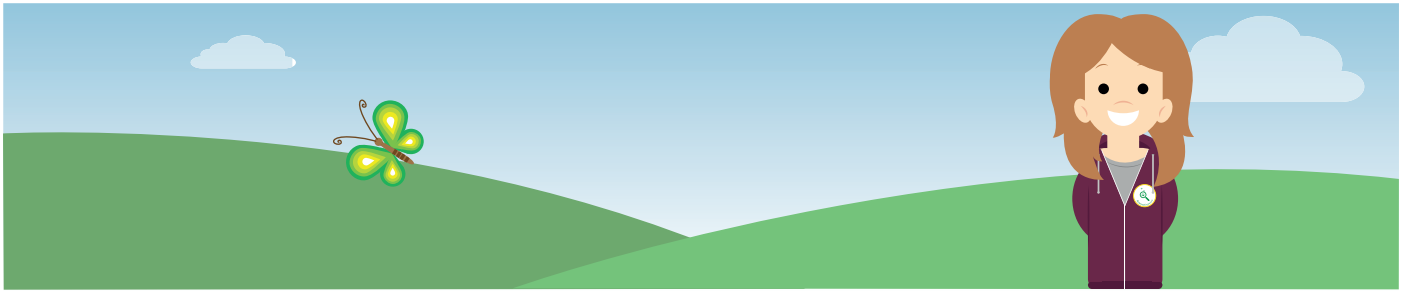
Grouping means putting things together base on their features or properties, like what they look like or how they behave.

1) Write the missing questions and answers in the right places.



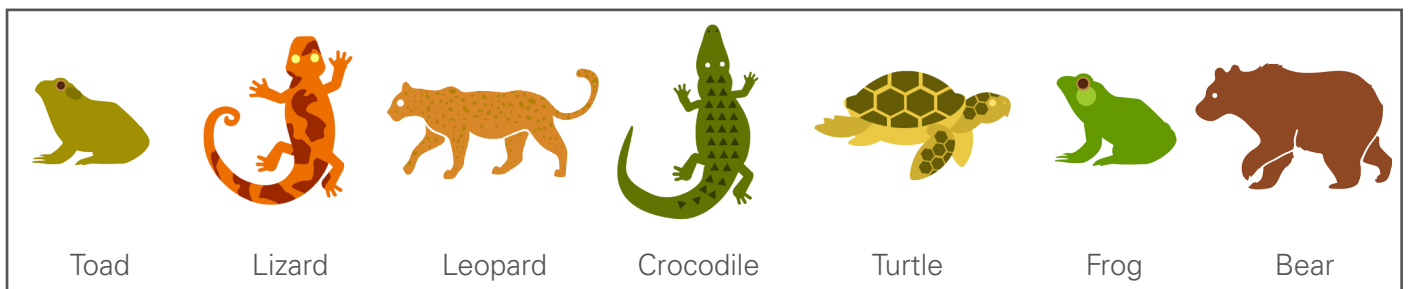
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2) Draw and label the animals in their correct group.

Mammals	Reptiles	Amphibians



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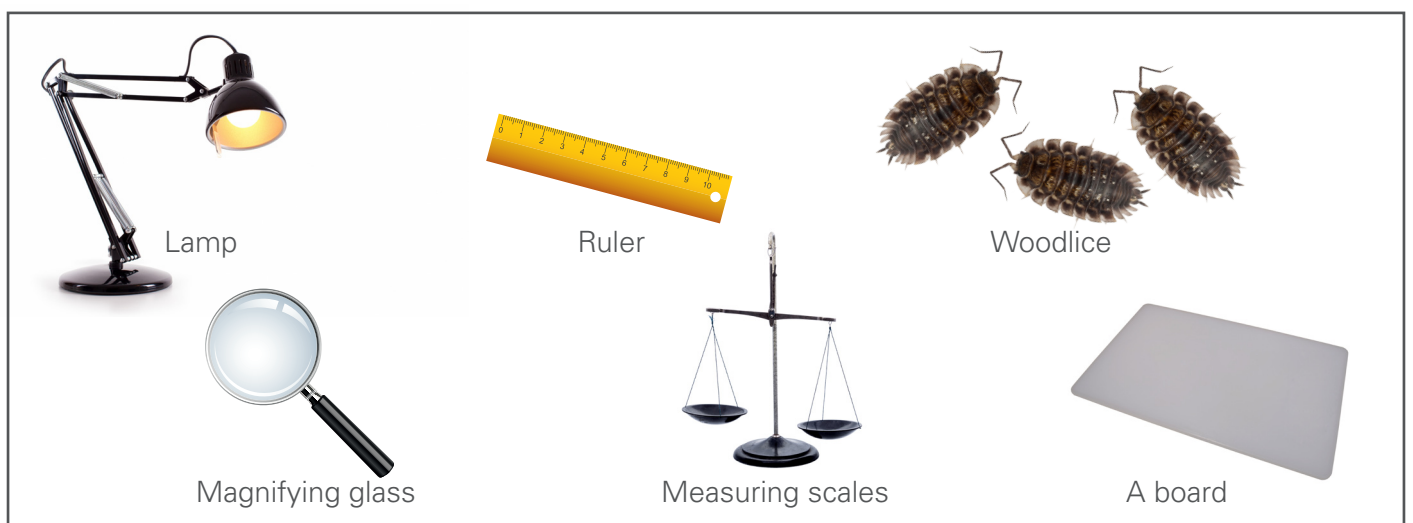
## Your mission: Fair tests

### Mission brief

Tests help us answer questions. In a fair test we change one thing and keep everything else the same. This means the thing we change is what causes any differences in our results.

Hanna has found some woodlice. She wants to find out if woodlice prefer dark or light places to live.

- 1) Help Hanna plan her test:
  - a) Circle the three pieces of equipment she needs
  - b) Draw the equipment to show how the experiment should look



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2) Write down the variables she should change, keep the same, and measure?

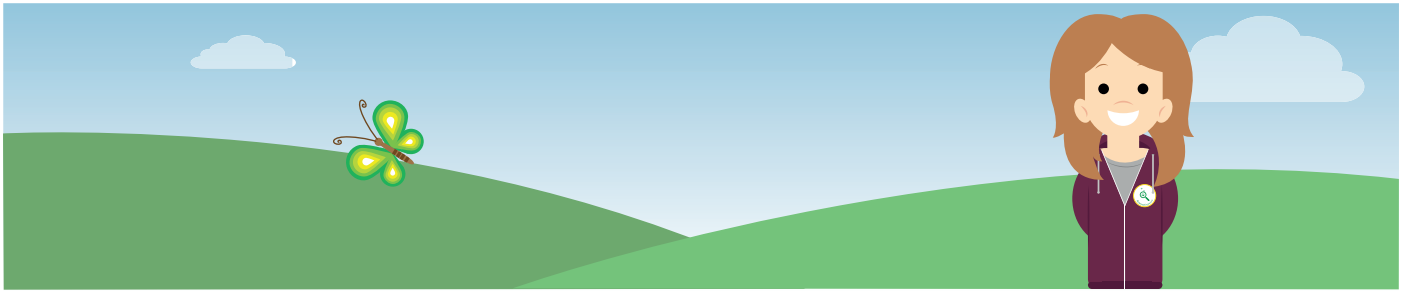
Change	Keep the same	Measure

Variables

Number of woodlice	Dampness	Amount of light
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## Your mission: Research

### Mission brief

- 1) Research means using books and websites to find the answers we want, instead of a test.  
Use the internet to help you match each word to its definition!  
Draw a line to link each word with what it means.

Symbiosis

An upper arm bone

Humerus

An animal that can make heat

Endotherm

When two organisms live together

- 2) Use the internet to help you write the correct answer to each question.

How many hours does a lion sleep per day?

About

hours

How long can a giant tortoise live?

About

years

How long can a giant squid grow?

About

metres

1

13

20

150