

Science Revision 10

Smallpox and cowpox are diseases. People who catch smallpox can die.

Dr Jenner discovered how to stop people catching smallpox.



I think that people who have had cowpox will not catch smallpox.

Dr Jenner (1749 – 1823)

What sort of statement did Dr Jenner make? Tick **ONE** box.



explanation

prediction

comparison

observation

☐☐☐☐

Not everyone had Dr Jenner's treatment.

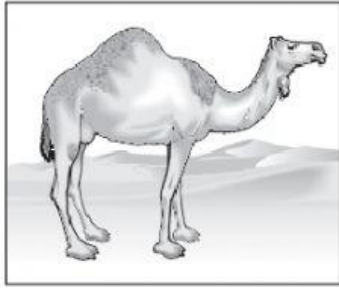
In 1844 many people died from smallpox.

The table shows how many people died from smallpox at different ages in London.

Age (years)	Number of people who died from smallpox
10	226
20	240
30	98
40	43
50	13
60	19
70	10
80	10

How many people who were 30 years old died from smallpox?

Camels can live in hot places.



Some features of a camel's body help it to survive in a hot desert.

Match each feature below to show how it helps the camel survive in the desert.

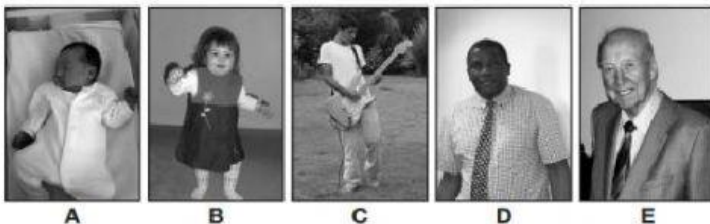
One has been done for you.

Camel's features	How feature helps
long legs	keep the camel's body further from the hot sand
wide feet	protect camels when eating prickly plants
thick fur	help camels stay on top of the sand
long eyelashes	protect camels against sand blowing in the air
thick, leathery lips	protects camels from getting sunburnt

Ella is learning about the human life cycle.

She collects pictures of people of different ages.

Label the photographs to name stages **B** and **D** in the human life cycle.



baby **teenage** **old age**

Ella is looking at some leaves.

The key below identifies which tree each leaf comes from.



Key to tree leaves:

① Is the leaf long and thin?

Yes: GO TO ②

No: GO TO ③

② Is the edge of the leaf smooth?

Yes: Laurel

No: Sweet chestnut

③ Is the edge of the leaf smooth?

Yes: Lilac

No: Silver birch

Look at this picture of a leaf from one of the trees.



Use the key above to identify the tree it comes from.

 The leaf is from a _____ tree.

Tick **ONE** box to show why it is useful to identify plants and put them into groups.



so we know where to find a plant

☐

because there is a large variety of plants

☐

in case the plants become extinct

☐

so we can observe the plants in their habitats

☐

Ella wonders if pulse rate is affected by the different stages in the human life cycle.

Complete the sentence below about pulse rate.



Pulse rate measures how quickly the _____ pumps blood around the body.

The table shows Ella's results.

Stage of the human life cycle	Average resting pulse rate (beats per min)
A (baby)	135
B	97
C	84
D	72
E (old age)	76

Ella concludes, 'The older you are, the slower your resting pulse rate is.'

The evidence in Ella's results does **not** support her conclusion.

Use Ella's results to explain why they do **not** support her conclusion.

People who are fit have lower resting pulse rates than people who are unfit.

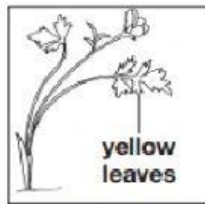
Write **yes** or **no** on each row of the table to show if the activities are likely to affect a person's resting pulse rate.



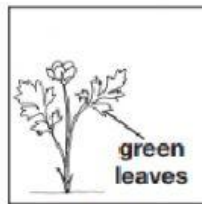
Activity	Will the activity affect a person's resting pulse rate? Yes or no?
swim every day	
go for a walk every day	
read every day	

Some children are finding out about plants. They get three buttercup plants. They put each plant in a place with different conditions.

After two weeks, the buttercup plants look like this:



Place A



Place B



Place C

Write **A**, **B**, and **C** in the table below to match each place to the conditions found there.

Place	Conditions	
	Does the plant have light?	Does the plant have water?
	✓	✓
	✓	X
	X	✓

There are differences between plants. These differences help people sort plants into groups.

Write **true** or **false** next to each reason that explains why plants need to be sorted into groups.

Plants need to be sorted into groups...

True or false?

to stop plants becoming extinct.

to help people identify plants.

to help plants reproduce.

Ben's class go to the school pond every day for five days.

At midday their teacher measures the depth of water in the pond.

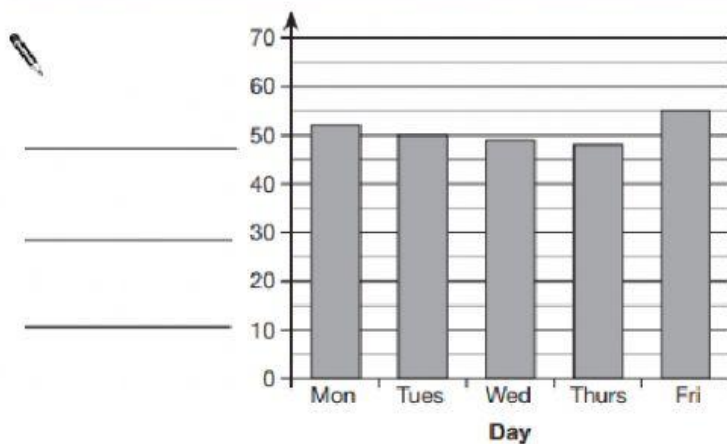
The children measure the air temperature.

They always take the measurements at the same place.

Day	Air temperature ($^{\circ}\text{C}$)	Depth of water (cm)
Monday	17	52
Tuesday	19	50
Wednesday	21	49
Thursday	22	48
Friday	12	55

Ben plots a bar chart.

Complete the missing axis label with the unit.



On one morning it rained.

On the morning of which day of the week was it most likely to have rained? How can you tell?

 Day: _____

Class 6 find out about processes that happen on mountains.



Processes that happen on mountains

- A – Water vapour in the air cools down to form water droplets.
- B – Water droplets change into snow.
- C – Snow on mountains changes into water.
- D – Water changes into ice.

Tick **ONE** box in each row to match each process to its correct name.



Process	Name of process			
	melting	freezing	condensing	evaporating
A				
B				
C				
D				

Tom puts some soil and water in a jar with a lid.

He sees bubbles rising to the surface.

Complete the labels. Write **solid**, **liquid** or **gas** in each box.

