

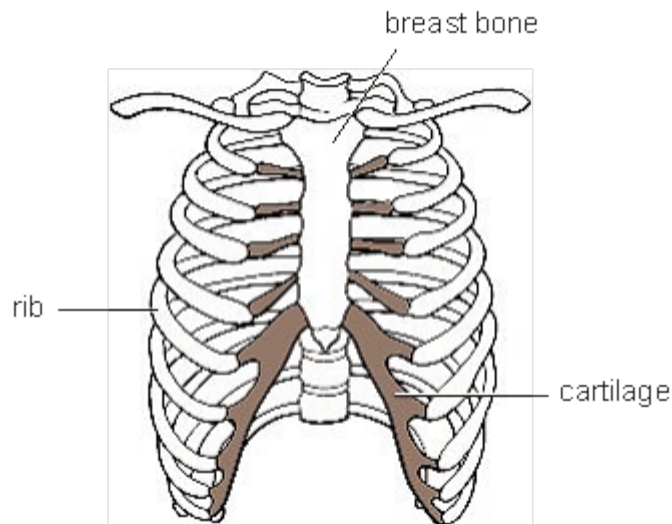
# Science Quick Quiz

## Year 6 Animals including humans

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Q1. The drawing below shows the human rib cage.



(a) The rib cage protects organs in the chest.

Give the names of **two** organs in the chest.

1. ....

2. ....

2 marks

(b) The ribs are attached to the breast bone by cartilage which bends easily. This lets the space in the chest get bigger.

Why is it important that the space can get bigger?

.....  
.....

1 mark

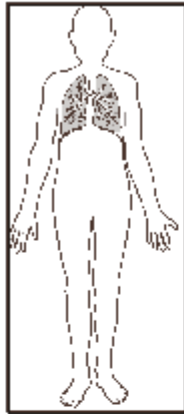
(c) The drawings below show parts of three different organ systems.

Draw a line from each organ system to its function.

Draw only **three** lines.

**organ system**

**function**



digestion of food



reproduction



taking in oxygen from the air

movement of the body

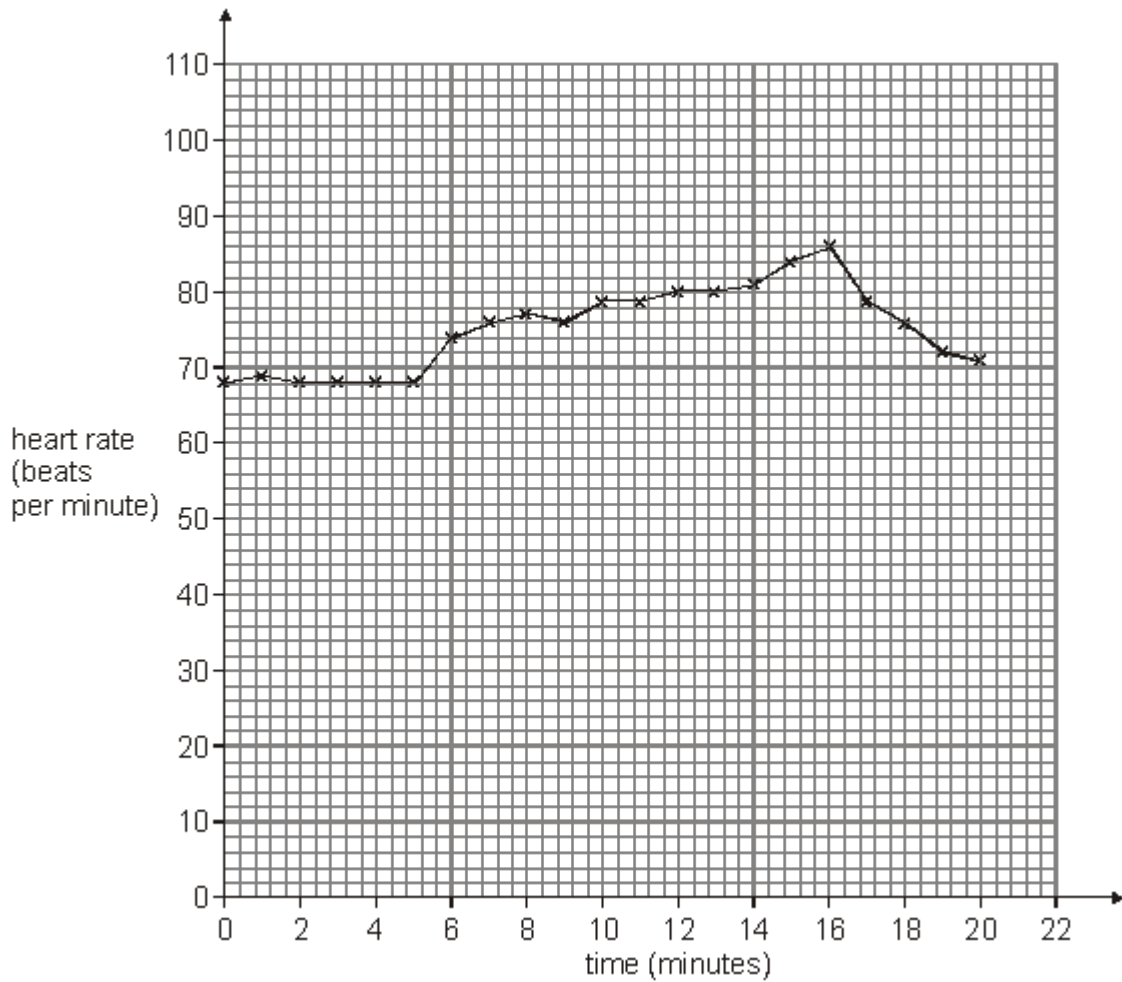
3 marks

Q2. Harry investigated the effects of fizzy cola drink on his heart rate.

First he measured his heart rate every minute for 5 minutes when sitting down. Then he drank some cola.

He continued to measure his heart rate at regular intervals.

This is a graph of his results.



(a) Why did Harry measure his heart rate every minute for 5 minutes before drinking his cola?

.....  
.....

1 mark

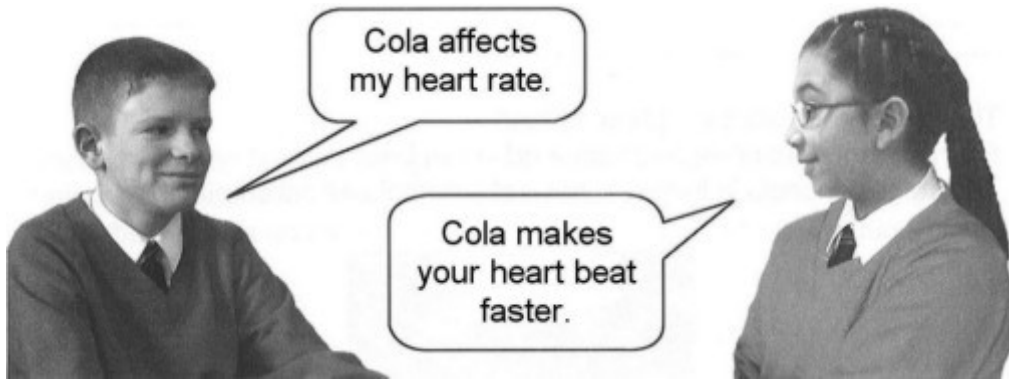
(b) Harry says cola affects his heart rate.

What evidence is there in the graph to support his idea that cola affects his heart rate?

.....  
.....

1 mark

(c) Harry and Yasmin came to the following conclusions.



Harry

Yasmin

Explain why Yasmin's conclusion is better than Harry's conclusion.

.....  
.....

1 mark

(d) Yasmin said, "We should also measure Harry's heart rate after he drinks fizzy water".

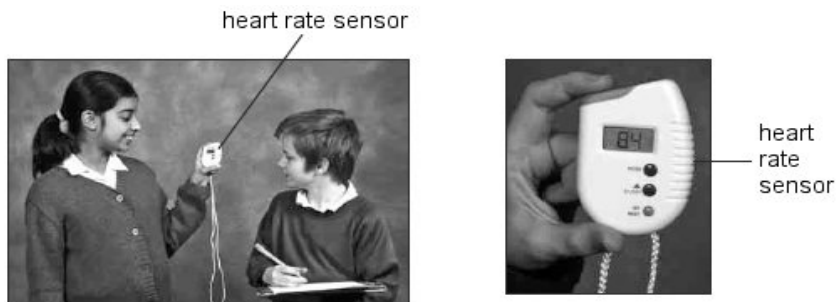
How would measuring Harry's heart rate after he drinks fizzy water improve the investigation?

.....  
.....

1 mark

**Q3. Heart rate**

(a) James and Alice investigated a report that said when people chew gum, their heart rate increases.



They measured the heart rate of five children at rest. Next they measured the heart rate of each child as they chewed gum.

Why did James and Alice measure the children's heart rate when they were resting?

.....

.....

1 mark

(b) The table below shows the heart rates of the five children.

Child	At rest (beats per minute)	After chewing gum for 1 minute (beats per minute)
Robert	84	94
Emma	84	86
Carol	96	104
Samantha	96	101
Eshe	83	100

Look at the table. Which part of their investigation was presented in the table? Tick **ONE** box.

questions	<input type="checkbox"/>	results	<input type="checkbox"/>
plans	<input type="checkbox"/>	ideas	<input type="checkbox"/>

1 mark

(c) What variable did the children measure?

.....

1 mark

(d) Alice's evidence agrees with the report.  
She said, 'When they chew gum, the children's heart rate increases.'

Use the data **in the table** to describe how the evidence supports  
Alice's conclusion: 'When they chew gum, the children's heart rate increases.'

.....

.....

1 mark

(e) James wondered if it was the **gum** or the **chewing** that caused the increase in heart rate.

How could James check whether it was the **gum** or the **chewing** that caused the increase in heart rate?

.....

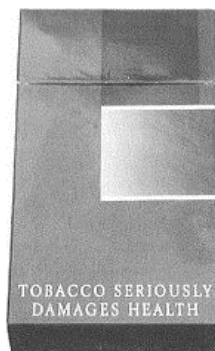
.....

1 mark

#### Q4. Smoking and Health

(a) Gary and Jessica are learning about the harmful effects of smoking.

They read the warning on a packet of cigarettes.



How can smoking affect your **lungs**?

.....

1 mark

(b) Gary and Jessica ask four adults their lifestyles.

The table shows what they find out.

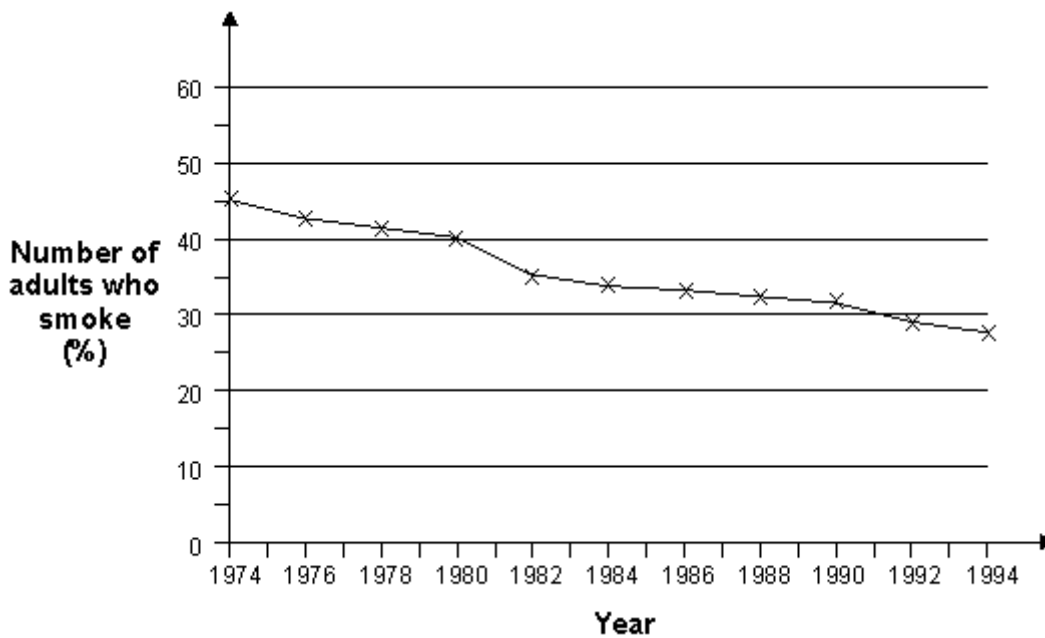
Name	Smokes	Has healthy diet	Takes regular exercise
Sanjay	No	Yes	Yes
Carl	Yes	Yes	Yes
Fatima	No	Yes	No
Helen	Yes	No	No

Which adult listed in the table is **most likely** to develop heart disease?

.....

1 mark

(c) This graph shows how the number of adults smoking changed between 1974 and 1994.



(i) Use the graph to describe the **change** in the number of adults who smoked between 1974 and 1994.

.....

.....

1 mark

(ii) Give **ONE** possible reason for this change.

.....

.....

1 mark

Total: /19



Assessment Summary	
Total Mark	/19
Below Expectations Below 8 marks	
Expectations Between 8-13 marks	
Above Expectations Above 14 marks	