

## KS1 Science Quiz - Investigating - Changes over Time (Questions)

This quiz addresses the requirements of the National Curriculum KS1 Science for children aged 5 and 6 in years 1 and 2. Specifically this quiz is aimed at the section dealing with using simple data to investigate changes over time.

In science at school you have looked at simple data to investigate how things change over time. Plants and animals grow. The seasons bring different weather. The nights get longer in the winter and shorter in the summer. This quiz is all about using simple data to investigate how things change. Can you say how much they have changed over time? Can you say why they have changed? Have a go, and see just how many you can get right.

1. Dylan is growing a sunflower. He measured its height. On the 1st of July it was 80 cm high. On the 14th of July it was 120 cm high. How much had it grown in that time?



- 14 cm
- 20 cm
- 40 cm
- 200 cm

2. Becky is 7 years old. Becky is 125 cm tall.

Her sister, Lucy is 5 years old. Lucy is 105 cm tall.

How much taller is Becky than Lucy?



- 10 cm
- 15 cm
- 20 cm
- 25 cm

3. Tanya kept a weather diary. Every day for a week she found out how much rain had fallen. Tanya used a rain-gauge. Here are her results:

Mon 2 mm, Tue 3 mm, Wed 0 mm, Thu 7 mm, Fri 11 mm, Sat 12 mm, Su 11 mm

What was the wettest day that week?



- Monday
- Wednesday
- Saturday
- Sunday

4. Have another look at Tanya's results:

Mon 2 mm, Tue 3 mm, Wed 0 mm, Thu 7 mm, Fri 11 mm, Sat 12 mm, Su 11 mm

How did the weather change over the week?



- It became drier
- It became windier
- It became warmer
- It became wetter

5. Every morning, Olivia checks the thermometer outside school. On Monday it said 12°C. But on Tuesday it said 3°C. How much colder was Tuesday morning than Monday morning?



- 3°C
- 6°C
- 9°C
- 12°C

6. Evie is checking when it goes dark at night. On the 1st of January it was dark at 4 o'clock in the afternoon. On the 1st of February it was dark at 5.30 in the afternoon. What does Evie say is happening to the nights?



- The nights are the same length
- The nights are getting longer
- The nights are getting shorter
- The nights are not changing

7. Maria asked, 'Do different colours of paint take longer to dry?'

Maria and her friends investigated this. They used three colours. They timed how long they took to dry. Here are their results:

Orange 45 minutes  
Green 45 minutes  
Red 45 minutes

What did Maria say about their results?



- 'Different colours of paint do not take longer to dry'
- 'Different colours of paint do take longer to dry'
- 'The colour of paint changes how long it takes to dry'
- 'Red is the brightest colour, so it took longer to dry'

8. Two years ago, Maria's Mum hung red curtains in their window. The curtains have faded. What colour are they now?



- Green
- Blue
- Grey
- Pink

9. Tom asked, 'When do most leaves fall off the trees?'

He measured the depth of leaves on the floor of a wood. Here are his results:

January: 6 cm, April: 4 cm, July: 1 cm, October: 12 cm

When do most leaves fall off the trees?



- In winter
- In spring
- In summer
- In autumn

10. The weather changes from month to month. Which one of these months is most likely to be very wet or very cold?



- January
- May
- July
- September

## KS1 Science Quiz - Investigating - Changes over Time (Answers)

1. Dylan is growing a sunflower. He measured its height. On the 1st of July it was 80 cm high. On the 14th of July it was 120 cm high. How much had it grown in that time?



- 14 cm  
 20 cm  
 40 cm  
 200 cm

How many weeks is it from the 1st of July to the 14th of July?

3. Tanya kept a weather diary. Every day for a week she found out how much rain had fallen. Tanya used a rain-gauge. Here are her results:

Mon 2 mm, Tue 3 mm, Wed 0 mm, Thu 7 mm, Fri 11 mm, Sat 12 mm, Su 11 mm

What was the wettest day that week?



- Monday  
 Wednesday  
 Saturday  
 Sunday

On what day did it not rain?

2. Becky is 7 years old. Becky is 125 cm tall.

Her sister, Lucy is 5 years old. Lucy is 105 cm tall.

How much taller is Becky than Lucy?



- 10 cm  
 15 cm  
 20 cm  
 25 cm

How much older is Becky than Lucy?

4. Have another look at Tanya's results:

Mon 2 mm, Tue 3 mm, Wed 0 mm, Thu 7 mm, Fri 11 mm, Sat 12 mm, Su 11 mm

How did the weather change over the week?



- It became drier  
 It became windier  
 It became warmer  
 It became wetter

We don't know about the wind and the cold because we don't have Tanya's results for those

5. Every morning, Olivia checks the thermometer outside school. On Monday it said 12°C. But on Tuesday it said 3°C. How much colder was Tuesday morning than Monday morning?



- 3°C
- 6°C
- 9°C
- 12°C

Water freezes when it reaches 0°C

7. Maria asked, 'Do different colours of paint take longer to dry?'

Maria and her friends investigated this. They used three colours. They timed how long they took to dry. Here are their results:

Orange 45 minutes  
Green 45 minutes  
Red 45 minutes

What did Maria say about their results?



- 'Different colours of paint do not take longer to dry'
- 'Different colours of paint do take longer to dry'
- 'The colour of paint changes how long it takes to dry'
- 'Red is the brightest colour, so it took longer to dry'

What do you think would happen if they tried yellow or blue paint?

6. Evie is checking when it goes dark at night. On the 1st of January it was dark at 4 o'clock in the afternoon. On the 1st of February it was dark at 5.30 in the afternoon. What does Evie say is happening to the nights?



- The nights are the same length
- The nights are getting longer
- The nights are getting shorter
- The nights are not changing

What time does it say on the clock in the picture?

8. Two years ago, Maria's Mum hung red curtains in their window. The curtains have faded. What colour are they now?



- Green
- Blue
- Grey
- Pink

Red colours often fade in sunlight

9. Tom asked, 'When do most leaves fall off the trees?'

He measured the depth of leaves on the floor of a wood. Here are his results:

January: 6 cm, April: 4 cm, July: 1 cm, October: 12 cm

When do most leaves fall off the trees?



- In winter
- In spring
- In summer
- In autumn

What colours are a lot of leaves in autumn?

10. The weather changes from month to month. Which one of these months is most likely to be very wet or very cold?



- January
- May
- July
- September

Weather forecasters are called meteorologists