

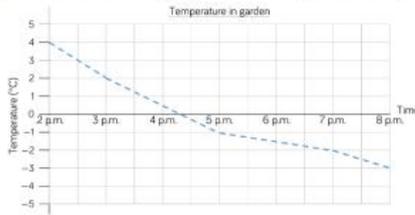
Tuesday

07.07.2020

Good morning Year 5! How are you today?

Starter

Here is a line graph showing the temperature in a garden.



What was the temperature at 5 p.m.?

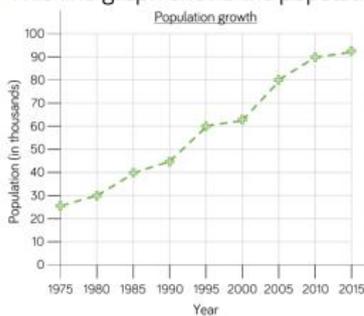
What was the difference in temperature between 3 p.m. and 7 p.m.?

When was the temperature 4°C?

Estimate the time when the temperature was 0°C.

Estimate the temperature at 6 p.m.

This line graph shows the population growth of a town.



What was the population in 1985?

How much did the population grow between 1990 and 2010?

When was the population double the population of 1985?

5

Main Activity

Today, we are going to keep learning about scatter graphs. Can you think of 5 things you learnt about scatter graphs yesterday?

1. _____

2. _____

3. _____

4. _____

5. _____

Can you turn the information in this table into a scatter graph? You can use lines to join up the points if you want to. Make sure you include all the important features we learnt about last week. I'll put a success bingo grid at the bottom so you can tick off what you have done.

| Number of tigers alive in the wild | Year |
|------------------------------------|------|
| 1970 | 4000 |
| 1980 | 3400 |
| 1990 | 3000 |
| 2000 | 1400 |
| 2010 | 3200 |
| 2020 | 3900 |

Scatter graph features bingo board

| | | |
|---|---|---|
| Clear and detailed title | labelled x axis | labelled y axis |
| sensible range on the y axis (highest number) | clear crosses or dots to show each data point | a line through the information showing the pattern it creates |
| readable scale on the y axis (jumps not too great or too small) | years shown on the x axis | years are spaced out evenly |

Reasoning

A lot of countries in Asia, the tigers' natural habitat, have joined together to try and help protect tigers. These include China, Russia, Indonesia and Bangladesh. They want the tiger population to reach 6000 by 2022.

1. How much would the tiger population have to increase by to meet the 6000 tiger target?
2. The scientists want to express how close they are to their target as a fraction. If 6000 is the whole target, how close are we to achieving it? Can you show your answer as the simplest possible fraction?
3. Plot 6000 tigers for 2022 onto your graph. (if there is space). The scientists want to know if they are on track to meet their target. How many tigers do you think there should be in 2021 if we hope there are 6000 by 2022?