

Nuffield Free-Standing Mathematics Activity ‘Matching graphs and scenarios’ Student cards page 1 of 4
This graph shows the
relationship between
kilometres and miles.
8 kilometres = 5 miles

The journey was 100 miles long. We travelled at a steady 50 mph and arrived after 2 hours.

When full, the tank held 100 litres of oil. We used 20 litres every day.
After 5 days it was all gone.

The water boiled at $100^{\circ} \mathrm{C}$ then cooled to the room temperature of $20^{\circ} \mathrm{C}$ after 1 hour.

When we took the bread from the freezer, its temperature was $-20^{\circ} \mathrm{C}$. It took about 30 minutes to thaw.

This graph shows the relationship between Fahrenheit and Celsius.

For water, freezing point is $0^{\circ} \mathrm{C}$ or $32^{\circ} \mathrm{F}$ boiling point is $100^{\circ} \mathrm{C}$ or $212^{\circ} \mathrm{F}$


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I was driving at a steady 50 mph when I had to do an emergency stop.

My bath took 5 minutes including
the time taken to fill it and let out the water.
The depth of the water rose to 50 cm when I got in.

After setting off from the junction
I speeded up to 50 mph in 10 seconds.

The plant grew slowly at first,
then more quickly. It reached a height of 50 cm after 10 weeks.

My heart rate rose quickly to $\mathbf{1 0 0}$ beats per minute during exercise.
It took longer to fall when I stopped.
My heart rate was back to normal 50 minutes after I started exercising.


This container holds 200 ml of water.
The water was poured in steadily until it was full after 50 seconds.

