



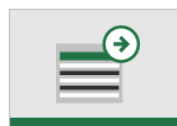
## Core Maths

### Summer Work and Reading List

#### TASKS

- 1) Answer the following questions. Take a guess before using the internet to check your answer.
  - a. What is the population of the UK?
  - b. How many people are aged 20-30?
  - c. What is the length of the UK?
  - d. How many houses are there in the UK?
  - e. How many flights leave from Birmingham Airport in one day?
- 2) We will be using Excel regularly in lessons as we'll be looking at real life data. Before the course starts, you need to have a good knowledge of Excel. Follow the link below and complete the templates on the Microsoft site. If you are a complete beginner, start at take a tour. If you have some knowledge of Excel, complete the formula tutorial.

- Go to this website [Excel video training \(microsoft.com\)](https://www.microsoft.com/excel/video-training)
- Scroll down and click download template
- Work through the Excel files. Make sure you click enable editing at the top.



Take a tour  
[Download template >](#)



Formula tutorial  
[Download template >](#)

#### Podcasts

##### Risky Talk

How can we best communicate the risks and the evidence on the most pressing issues of the day – from genetics and nutrition, to climate change and immigration?

[Risky Talk | Podcast on Spotify](#)



##### More or Less

Tim Harford explains - and sometimes debunks - the numbers and statistics used in political debate, the news and everyday life

<https://www.bbc.co.uk/programmes/b006qshd>



#### Books

An area of the course is teaching you how to estimate calculations.

This book explores fermi estimation.

[Maths on the Back of an Envelope: Clever ways to \(roughly\) calculate anything by Rob Eastaway](#)

How many cats are there in the world?

What's the chance of winning the lottery twice?

And just how long does it take to count to a million?

