

Spring 2021 Video Classes

Maths Competition: World Record

Using the data for the Women's 100m world record over the past 100 years, find the following using the line of best fit function in Excel. [You can download the data as an Excel file here.](#)

1. Predict when the world record will go below 10 seconds using:
 - A. a linear line of best fit.
 - B. a quadratic line of best fit.
 - C. a cubic line of best fit.
2. Are any of these realistic? Can you think of how we could improve our predictions?

How to enter

1. Complete your competition entry and make sure it follows the guidelines listed below
2. Fill out the [Competition Cover Sheet](#)
3. Email your entry and your cover sheet to us at inspire@sjc.ox.ac.uk

Terms & Conditions

1. You must complete the [Competition Cover Sheet](#) and submit it along with your entry to inspire@sjc.ox.ac.uk before the closing date. If we do not receive a completed cover sheet with your entry, we will NOT be able to consider the entry.
2. The competition closes at **5pm on Wednesday 5 May 2021.**
3. The work you submit must be entirely your own.
4. Prize winners will be contacted via email after the competition's closing date. All entries with correct answers to the challenge will be entered into a random prize draw for the following prizes:
 - a. 1x 1st place: £20 Amazon gift voucher
 - b. 2x 2nd place: £10 Amazon gift voucher
 - c. 3x 3rd place: £5 Amazon gift voucher