

## Maths Extension Homework.

### Year 7:

Daily: <http://uk.ixl.com/math/>

Use the above link, find the section titled “Year 7 skills”, and click on “See all 270 year 7 skills >>”. Choose the topic you would like to work on, and complete 10 free questions.

You only get 10 free questions per day, if you would like more, then you have to subscribe.

If you are struggling with that topic, have a look at a lesson on MyMaths, ask your maths teacher for help, or see if you can find the topic in the Year 6 skills section and try those questions.

If you are comfortable and want to extend yourself on that topic, see if you can find it in the Year 8 skills section.

Half Termly: Junior Maths Challenge Paper

Ask Miss Barlow in room E3 for a copy of a past UK Maths Trust (UKMT) Junior Maths Challenge paper, and have a go at solving the problems. Return your solutions to Miss Barlow to get them marked and see how you have done.

UKMT is a company that runs individual and team challenges in maths. The UKMT Individual Maths Challenges are lively, intriguing multiple choice question papers, which are designed to stimulate interest in maths in large numbers of pupils. The three levels cover the secondary school range 11-18 and together they attract over 600,000 entries from over 4,000 schools and colleges. You can find more information here: <https://www.ukmt.org.uk/>

Termly: Research Project – Why do I need to learn maths?

Research why people need to learn different topics in maths. What is the point in learning how to construct a triangle? Who uses that in their job? How about algebra?

Think of a job you might like to do when you are older – what maths might you have to use?

Interview someone you know and ask them what maths they use in their job and in their daily life.

Find examples in the news of maths being used in the real world, have there been any big problems caused because someone got their maths wrong?

Hand your finished project in to your maths teacher at the end of the term.