

**A PARENTS'  
GUIDE TO FREE  
MATHS  
RESOURCES  
AVAILABLE  
ONLINE**

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## INTRODUCTION.

**It's April fools Day. But the current situation is no joke. All over the world people are losing their lives, or risking them to prevent others from doing so. Does maths really matter that much?**

On the face of it, no. Missing out on a few simultaneous equations will hardly seem like the top concern for most of us right now. But we do know that a lot of students are worried about keeping up their grades, and other are anxious about not falling behind.

This booklet, admittedly hastily put together, is an attempt to support you as parents during this unprecedented time. Many of you will be confident mathematicians, while many more will be less sure of themselves, or unaware of the appropriate curriculum.

### **What are schools doing?**

The picture differs wildly across the country, and teachers I have been in touch with are all operating slightly different plans. It make sense therefore to follow schools' advice as far as possible. Most are offering some sort of online learning platform, while others are sending work home via their own website. Your children should wherever possible follow the plans set out for them.

### **What's the point of this booklet then?**

Many children will either not feel able or motivated to access the work set, or will need something more challenging. Also, school mathematics curricula are often necessarily quite tightly focussed, and you may find something here that will spark an interest in the wider world of mathematics, either in you or the pupils with whom you are working.

### **How is the book set out?**

I spent a long time thinking about what would be the most helpful yet simplest to navigate. In the end I have gone for just a primary and a secondary section - breaking down further felt a bit pointless given the different levels of attainment in any given age bracket.

- There are websites listed in each section and each is hyperlinked. The key thing is that they are all free to use; some for the moment in response to the crisis, others permanently so. Some resources are suitable for both primary and secondary so appear in both sections. Obviously, this is only a tiny sample of what is out there - there will always be more, so I certainly don't claim that this is in any way exhaustive!

That's all the blurb - let's get to it! Stay home, stay safe, be kinder than you feel like being, and PLEASE don't think your kids have to work five or six hours a day - they really don't. Honestly, a good hour or two per day (*not per subject, that's altogether!*) feels fine from my viewpoint. If I can help with anything maths-related, please drop me a message and I'll do my best.

**Love and Prayers, Andrew Jeffrey**

## PRIMARY RESOURCES

### Websites

**N.B.** These sites all work best on a computer or tablet rather than on a phone. I have managed to test them on Firefox, Chrome, Safari and Opera to ensure they are functioning, but of course, such information is only accurate at the time of publication (*in this case 1<sup>st</sup> April 2020*). Click the name of each site to go directly to it.

Name of Website (click for weblink)	Maths Covered/comments
<a href="#">NRICH Maths at home</a>	Separate categories for 3-5s, 5-7s, 7-11s, and guidance for parents. A great place to start your quest.
<a href="#">BBC Bitesize KS1</a>	Lots of activities for Year 1 and 2 children
<a href="#">BBC Bitesize KS2</a>	As above but for Years 3-6
<a href="#">Digit Dog Challenges</a>	Early Number skills for 3-5 year olds.
<a href="#">Go Teach Maths</a>	Lots of presentations, worksheets & activities for KS2/3
<a href="#">Corbett Maths 5-a-day</a>	5 daily questions with a choice of difficulties KS2
<a href="#">STEM Home Learning</a>	KS1 and KS2 - the 'Challenges' book is excellent
<a href="#">TeacherLed</a>	Big range of maths teaching tools and challenge games
<a href="#">Wessens Mathenaem FDP</a>	Simple activities to help learn Fractions/Decimals/ Percentages.
<a href="#">Wild Maths</a>	Exploratory and creative mathematics
<a href="#">White Rose Maths Home Learning</a>	Early Years up to Y8
<a href="#">My Mini Maths</a>	Lots of home learning resources for Years 3 to 6



## Downloadable Resources

**N.B.** The following set of links contain things that you or your child can print out and do at home. They lean heavily towards problem-solving and puzzles. This is because logical thinking and Problem Solving are the very core of why we study mathematics.

***“The true test of our intelligence is not what we know, but how we behave when we do not know”.***

***John Holt***

Name of Website (click for weblink)	Downloadable Resources
<a href="#">Mathematics Mastery</a>	Full lessons, from Early Years up to Key Stage 3
<a href="#">Maths Genie KS2 SATS Past Papers</a>	Papers and Mark Schemes
<a href="#">Association of Teachers of Mathematics</a>	Lots of problem solving and reasoning for all ages
<a href="#">The Mathematical Association Mathematical Pie</a>	Excellent and fun puzzles for ages 9 to 90
<a href="#">Family Puzzle Book</a>	A variety of puzzles to print out and share
<a href="#">First 4 Maths</a>	A range of resources suitable for EYFS upwards
<a href="#">Oxford Owl Parents pages</a>	A host of great ideas and links
<a href="#">Lego Maths</a>	Some fun ideas (scroll down to get to the maths)
<a href="#">Mathsbot Question Generators</a>	Customisable printable worksheets
<a href="#">Babcock Playing Card Games</a>	Playing Card Maths Games
<a href="#">Erikson Institute</a>	Early Years Maths resources
<a href="#">Busy Lizzie Maths</a>	Lots of great maths ideas for primary children

## Video Resources

**N.B.** These videos are mostly on YouTube. Be aware that I did not have time to watch them all the way through but to the best of my knowledge they are eminently suitable.

Provider name (click for weblink)	Comments
<b>Gareth Metcalfe Lessons</b>	National Curriculum Y3 and Y4
<b>Gareth Metcalfe Lessons</b>	National Curriculum Y5 and Y6
<b>OU Teaching Mathematics course</b>	24 hours of study for teaching 8-14 year olds.
<b>Maths With Parents</b>	Clue's in the name really.
<b>Number Fun</b>	Maths for the musically inclined!
<b><i>Finally, I hope you will forgive me for also including some of my own work:</i></b>	
<b>Andrew Jeffrey's Key Stage 1 channel</b>	12 fun maths videos for Y1/Y2
<b>Andrew Jeffrey's Key Stage 2 channel</b>	12 fun maths videos for Y3/4/5/6

## SECONDARY RESOURCES

### Websites

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Name of Website (click for weblink)	Maths Covered/comments
<b>NRICH Maths at home</b>	KS3, 4 and even A-Level resources found here.
<b>BBC Bitesize KS3</b>	Lots of activities for Years 7-9
<b>BBC Bitesize GCSE</b>	Years 9-11 resources
<b>Corbett Maths 5-a-day GCSE</b>	Daily Questions - just five, sorted by grade
<b>Go Teach Maths</b>	Lots of presentations, worksheets & activities for KS2/3
<b>Mathigon</b>	A Pot Pourri of Secondary (and beyond) maths
<b>Wessens Mathenaeum FDP</b>	Simple activities to help learn Fractions/Decimals/ Percentages.
<b>Wild Maths</b>	Exploratory and creative mathematics
<b>White Rose Maths Home Learning</b>	Early Years up to Y8
<b>Parallel Maths Project</b>	Great investigations for Years 7 to 10



## Downloadable Resources

**N.B.** The following set of links contain things that you or your child can print out and do at home. They include past papers which children in Years 10-13 should be working on at the moment, to give themselves the best possible chance of a good grade.

Name of Website (click for weblink)	Downloadable Resources
<a href="#">Mathematics Mastery</a>	Lessons from Y7 upwards (scroll down for KS3)
<a href="#">Revision Maths</a>	GCSE A-level and GCSE Papers and Mark Schemes
<a href="#">Association of Teachers of Mathematics</a>	Lots of problem solving and reasoning for all ages
<a href="#">The Mathematical Association Mathematical Pie</a>	Excellent and fun puzzles for ages 9 to 90
<a href="#">NCETM advice and support</a>	They promise it's coming soon!
<a href="#">STEM Home Learning</a>	A range of KS3 resources
<a href="#">Mathsbox</a>	Lots of free sample lessons and other resources
<a href="#">Mathsbot Question Generators</a>	Customisable printable worksheets
<a href="#">Resourceaholic</a>	A portal to all that is good in the world of maths!
<a href="#">Dr Frost Maths</a>	Exam question bank, online learning platform
<a href="#">Go Teach Maths</a>	Loads of printable lessons and PPTs
<a href="#">Autograph</a>	Powerful maths software, free download

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<a href="#">OU Teaching Mathematics course</a>	24 hours of study for teaching 8-14 year olds.
<a href="#">Maths With Parents</a>	Clue's in the name really.
<a href="#">Think Maths Problems</a>	Suitable for all secondary/A-level pupils
<a href="#">Chris Smith's Corona Conundra</a>	Youtube video problems
<a href="#">Maths Genie</a>	Past papers. Also with videos and model solutions
<b><i>Finally, please forgive me for also including some of my own work:</i></b>	
<a href="#">Andrew Jeffrey's Key Stage 3 channel</a>	12 maths videos for Y7-Y9

