**FREE Effective maths websites and online resources for use during school closures**

[**Matholia**](https://www.matholia.com/) <https://www.matholia.com/uk> is a comprehensive Singapore mathematics portal

(**Early to Second level**) that allows teachers to remotely assign tasks and monitor student progress as they work from home. Schools affected by the current Covid-19 situation can have free access to [Matholia](https://www.matholia.com/" \t "_blank) during this time. This offer is valid until the end of the school year. This website provides learning videos, practice modules, syllabus-based (English) games, assessments, problem-solving and enrichment tasks.

email support@matholia.com for further information.

**Mathscircle** <http://mathscircle.com/> are offering **primary** schools affected by COVID-19 free full access to [Times Tables Rock Stars](https://maths-circle.intercom-clicks.com/via/e?ob=DYGIVEvbReJDBz0TvlroaAIMqYVxm%2BjJFaH3gYaGUr3qxVsLQ5%2BJp9DFaWyOHfE8&h=f8830e3ca845f7fc8ec1695afa7badf77a972993-w8z89lmb_26145563611&l=1352900a24506f674808e33597aae49785c9d1d1-2791159)  – a platform for multiplication and division – and free full access to [NumBots](https://maths-circle.intercom-clicks.com/via/e?ob=eKkOeysiEuq3xKXXwq0nT85Bys%2FgN%2FMNg21VTqYSDrBLZGOXeXQjuoLn4MIe1I%2FK&h=ab030cfc903aa9cd4481793377dd1864e8941b6f-w8z89lmb_26145563611&l=a6ac1cf3eab8c8c6b0e6e72fd772f71b34fb3f76-2791161" \t "_blank) – a sister platform that tackles addition, subtraction and number bonds - throughout any period of school closure\*.

To take advantage of this offer please sign up for a trial and email  [support@mathscircle.com](mailto:support@mathscircle.com" \t "_blank) with the dates of your school’s closure so that they can extend access as needed. No payment details are required.

Both NumBots and Times Tables Rock Stars are easily accessible for pupils to play from home via the free apps or browsers and both provide teachers with access to statistics to enable them to follow and praise pupil progress.

\*Free full access is available to schools (who do not currently have a subscription) who are forced to close due to Covid-19, for up to a maximum of 60 days. If your school is closed for a longer period, please contact us at [support@mathscircle.com](mailto:support@mathscircle.com).

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| **Sumdog**  <https://pages.sumdog.com/> provides personalised maths and spelling practice for **5-14 year olds.**  All areas of Sumdog, including the ability to easily set work remotely, is now free for the next two weeks. This is to allow for planning for the use of Sumdog incase of school closure. They also invite you to join one of their daily 15 minute webinars providing practical tips for home learning.  In addition, schools will get free access to all of Sumdog during a closure. Sumdog's games engage children in personalised mathematics, spelling and grammar practice. Call on  [0131 226 1511](tel:+441312261511) or email [support@sumdog.com](mailto:support@sumdog.com) if you need any help |

**Mangahigh** <https://www.mangahigh.com/en-gb/>is offering free full access for 60 days to all schools impacted by COVID-19. This includes access to 100% of Mangahigh's mathematics content and full access to reports for teachers. They have a variety of educational games and quizzes for **7-16 year olds** that can be assigned by class teachers for students to complete at home. Additionally, Mangahigh automatically creates a list of recommended activities, to support every student with their learning needs. It works on any device with an internet connection and is available to use at home 24 hours a day, 7 days a week. Teachers will be able to track a child’s progress to ensure their learning continues and remains targeted. There is also a downloadable guide for distance learning on their website.

Please contact support@mangahigh.com if you have any questions about how to use Mangahigh.

**nRich** – <https://nrich.maths.org/13786> Free curriculum-linked resources (**Early years to Secondary**) to develop mathematical reasoning and problem-solving.

**White Rose Maths Hub** <https://whiterosemaths.com/>offers free schemes of learning for **Early Years to Secondary** level students. They are currently planning some free packages which are due to be released very soon, which will also include video tutorials and access to premium content. P

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| **Numeracy Resources/Website Links** |
| **Steve Wyborney**  Brilliant progressive resources to develop number skills  <https://stevewyborney.com> - suitable from Early to Second Level   * Esti Mysteries @ 4 challenge levels * Subitising Slides * Splat series (including fractions) * 20 Days of Number Sense and Rich Math Talk |
| **NCTM Illuminations –**  <https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Ten-Frame/>  Developing Number sense with 10 frames (Early/First Level)  <https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Algebra-Tiles/>  Use tiles to represent variables and constants, learn how to represent and solve algebra problem. Solve equations, substitute in variable expressions, and expand and factor. Flip tiles, remove zero pairs, copy and arrange, and make your way toward a better understanding of algebra (Second/Third) |
| **Greg Tang**  <https://www.gregtangmath.com/>  A fantastic range of games from Early through to Second Level including:-   * **Ten frame Mania** – developing number sense and structure of number * **Numtanga** (Junior) and Numtanga – matching different numerical representations * **Numskill** – Number bonds to 10, Number bonds to 20 * **SATfraction** – identify, simplify, compare and calculate fractions |
| **I See Maths** Early Number Sense - free resources that will help children to recognise small quantities. A range of different visual representations are used. Presentations and resources also help to introduce key maths concepts and ideas.<http://www.iseemaths.com/early-number/> (Early/First Level)Times Tables - The times tables cards represent multiplication visually, helping children to make connections between multiplication facts. The corresponding PowerPoint games can be used to show children these connections<http://www.iseemaths.com/tables/> (First/Second Level)Games and Resources - The games below help children to develop a strong 'number feel' and develop early calculation strategies<http://www.iseemaths.com/games-resources/> ( First and Second Level)3 Act Tasks (Graham Fletcher) 3-Act tasks provide engaging, thought-provoking contexts for mathematical enquiry. Act 1 shows the context for the enquiry and allows children to generate questions – what do they wonder? What extra information do they need? In Act 2, more information is provided: children are then given the chance to speculate and calculate before the solution is revealed in Act 3.<http://www.iseemaths.com/3-act-tasks/> (Early - Second Level) |
| **You Cubed**  [**https://www.youcubed.org/tasks/**](https://www.youcubed.org/tasks/) ‘Inspiring Maths Success for all Students through Growth Mindsets and Innovative Teaching’ A fabulous range of research based teaching methods, maths tasks, videos, and ideas intended to significantly reduce math failure and inequality and beyond, inspiring teachers and empowering all students to success (Early – Second Level) |
| **Maths Bot**  [www.mathsbot.com](http://www.mathsbot.com)  A fantastic website with a substantial range of manipulatives (First level – Nat 5) |
| Math antics  [www.mathantics.com](http://www.mathantics.com)  This is a very good maths video website which animates maths which is highly engaging for learners. There is a wide range of mathematical concepts covered in this website. (1st level – S4) |

lving **e** curriculum-linked resources to develop mathematical reasoning and

p **Online professional reading**

**Education Endowment Foundation –**

**Improving Mathematics in the Early Years and Key Stage 1** reviews the best available evidence to offer five recommendations for developing the maths skills of 3-7-year olds.

Recommendations include integrating maths into different activities throughout the day – for example, at registration and snack time – to familiarise children with maths language and make the most of the school day.

It also highlights that story and picture books can be a powerful tool for engaging children with basic maths concepts, while board games (such as Snakes and Ladders) are particularly beneficial to developing understanding of numbers.

Based on the best available international research – and drawing on the expertise of teachers and academics – this report is packed with examples and case studies to support practitioners.

There is also a guidance report on improving mathematics for 7-14 year olds, which may also be useful for class teachers to use as a resource to aid their day-to-day teaching.

**Very informative!**

<https://educationendowmentfoundation.org.uk/tools/guidance-reports/#closeSignup>

**Getting Started with Counting Collections**

Counting is fundamental to learning mathematics. It supports the development of a deep understanding of number, providing the core foundation for understanding place value, how numbers are composed and decomposed, and how they are related to each other.

Children need many and varied experiences with all kind of numbers to support them in their mathematics sense-making: they do this through counting.

This article explains what counting collections is, why counting is important and the development of counting skills and recording strategies over time.

**Worth a read!**

<https://4.files.edl.io/8c5c/02/06/19/190551-030ba49e-3a4d-42d0-9880-b0f769f2cb8a.pdf>

**Literacy Strategies for Improving Mathematics Instruction**

by Joan M. Kenney, Euthecia Hancewicz, Loretta Heuer, Diana Metsisto and Cynthia L. Tuttle

Chapter 2. Reading in the Mathematics Classroom, by Diana Metsisto

**Thought-provoking read!**

<http://www.ascd.org/publications/books/105137/chapters/Reading-in-the-Mathematics-Classroom.aspx>

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