**Curriculum Challenge.**

These links are all based on topics you have studied since September.

Corbett Maths Website corbettmaths.com

Each link takes you to a worksheet. The big red play button at the top of the page is a link to a video explaining the topic. Then the worksheet is divided into two sections: standard practice and applying your knowledge. You can get the answers by clicking on the big box at the bottom of the page.

Dr Frost Website drfrostmaths.com

Each link takes you directly to a video. On the page directly below the video are three options for practice questions: ‘practice this skill’, topic test – standard’ and ‘topic test – advanced’

PixiMaths Website piximaths.co.uk

The link takes you to a page on the PixiMaths website. There is a picture of the first slide of a PowerPoint which you should click on to access a PowerPoint. This will have explanations, examples and questions for you to try.

Maths Genie Website mathsgenie.co.uk

The links are in threes. The first link will take you to a video, the second line takes you to a set of questions and the third link takes you to the solutions.

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| **Unit 1** | **Analysing and displaying data** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2013/02/mean-from-a-frequency-table-pdf3.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/09/Estimated-Mean-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/01/Drawing-Pie-Charts.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/09/Pie-Charts-pdf.pdf> |
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| **Unit 2** | **Number Skills** |
| Dr Frost | <https://www.drfrostmaths.com/videos.php?vid=96> Prime Factorisation |
|  | <https://www.drfrostmaths.com/videos.php?vid=95> Lowest Common Multiple Highest Common Factor |
| PixiMaths | <https://www.piximaths.co.uk/products-of-prime-factors-hcf-and-l> PowerPoint |
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| **Unit 3** | **Equations, Functions and Formulae** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2013/02/expanding-two-brackets-pdf2.pdf> |
| Dr Frost | <https://www.drfrostmaths.com/videos.php?vid=17> Expand a single bracket |
|  | <https://www.drfrostmaths.com/videos.php?vid=18> Expand two or more brackets |
|  | <https://www.drfrostmaths.com/videos.php?vid=19> Factorise a single term |
|  | <https://www.drfrostmaths.com/videos.php?vid=20> Factorise a quadratic equation |
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| **Unit 4** | **Fractions** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2018/12/Expressing-a-ratio-as-a-fraction-or-percentage-pdf-1.pdf> |
| PixiMaths | <https://www.piximaths.co.uk/applied-ratio> PowerPoint and Three Way Ratio Problems |
| Maths Genie | <https://www.mathsgenie.co.uk/fractions.html> video  <https://www.mathsgenie.co.uk/resources/3-fractions-ws.pdf> questions  <https://www.mathsgenie.co.uk/resources/3-fractionsans.pdf> solutions |
|  | <https://www.mathsgenie.co.uk/ratio-fraction-or-linear-function.html> video  <https://www.mathsgenie.co.uk/resources/5-ratio-fraction-problems-ws.pdf> questions  <https://www.mathsgenie.co.uk/resources/5-ratio-fraction-problemsans.pdf> solutions  <https://www.mathsgenie.co.uk/resources/5-ratio-problems2-ws.pdf> questions  <https://www.mathsgenie.co.uk/resources/5-ratio-problems2ans.pdf> solutions |
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| **Unit 5** | **Angles and Shapes** |
| Maths Genie | <https://www.mathsgenie.co.uk/angles-parallel.html> video  <https://www.mathsgenie.co.uk/resources/4-angles-in-parallel-lines-ws.pdf> questions  <https://www.mathsgenie.co.uk/resources/4-angles-in-parallel-linesans.pdf> solutions |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2013/02/angles-in-polygons-pdf2.pdf> |
| Dr Frost | <https://www.drfrostmaths.com/videos.php?vid=159> Using algebraic angles |
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| **Unit 6** | **Decimals** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2018/09/Dividing-by-Decimals-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/01/multiplying-decimals-textbook-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/11/Dividing-Decimals-by-whole-numbers-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/01/FDP-Key-Equivalents-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/11/FDP-Mixture-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/11/FDP-Mixture-pdf.pdf> |
| Puzzles | <https://www.mathinenglish.com/puzzleview.php?id=125&pstid=507>  <http://justmaths.co.uk/Worksheets/Number/Decimal%20x%20and%20divide%20-%20Whodunnit.pdf>  <https://www.mathinenglish.com/puzzleview.php?id=159&pstid=510>  <https://nrich.maths.org/2877> |
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| **Unit 7** | **Equations** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2018/11/Equations-letters-both-sides-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/09/Forming-Solving-Equations-115-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/11/Equations-angles-perimeter-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/11/Trial-Improvement-pdf.pdf> |
| Puzzles | <https://www.brainfans.com/brain-teaser/number-and-math-puzzle/149/math-equation-with-answer>  <https://www.brainfans.com/brain-teaser/picture-logic-puzzle/79/equation-puzzle> |
| **Unit 8** | **Multiplicative Reasoning** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2013/02/simplifying-ratios-pdf1.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/ratio-sharing-the-total-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/12/Given-one-value-pdf-1.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/03/Ratio-Solving-Problems-1.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/11/Unitary-Method-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/recipes-pdf2.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/best-buys-pdf1.pdf> |
| Puzzles | <https://www.transum.org/Software/SW/Starter_of_the_day/Similar.asp?ID_Topic=34>  <https://nrich.maths.org/9003> |
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| **Unit 9** | **Perimeter Area and Volume** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2018/09/Area-of-Compound-Shapes-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/nets-pdf1.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/edges-faces-vertices-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/surface-area-cuboids-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cuboid-pdf1.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-an-l-shape-prism-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/07/Converting-Areas-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/07/Converting-Volumes.pdf> |
| **Unit 10** | **Sequences and Graphs** |
| Corbett Maths | <https://corbettmaths.com/wp-content/uploads/2019/03/Sequences-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2018/12/nth-term-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/03/Sequences-Patterns-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/04/Midpoint-of-a-Line.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/01/xa-and-ya-graphs-pdf.pdf> |
|  | <https://corbettmaths.com/wp-content/uploads/2019/01/Drawing-Linear-Graphs.pdf> |

**Extra-curricular Challenge**

These websites have lots of puzzles and challenges so if you want to get your brain around something different try the following websites:

* NRICH for puzzles, games and problem solving. Website nrich.maths.org
* Junior Maths challenge past papers can be found at

<https://www.ukmt.org.uk/competitions/solo/junior-mathematical-challenge/archive>

* Parallel Maths by Simon Singh. Website parallel.org.uk

This is a website for pupils wanting to stretch themselves. It sets challenges involving ideas outside of the Maths curriculum. They may involve videos, history, songs, lectures or Maths in the headlines. Every Thursday at 3pm you can access a new set of challenges. You have until midnight on Sunday to complete and submit. You will need to set up an account to use parallel maths. If you would like to link your account to Ribston Hall then use the teacher coder g4ujo when prompted.