

A Level Bridging Work Maths

The following tasks will enable you to revise your KS4 Maths and prepare you for the A Level course.

Please complete Activities 1 and 2.

Activity 1

Set up a file for Maths. It needs to have sections for the 10 areas you will be working on below. All the work you do needs to be marked, filed in the correct area and brought back to school on the first day so your teacher can see what you have done. Print off the table below and place it at the front of your file. As you complete the work make sure you fill in the table.

Activity 2

There are 10 sections to your work. We strongly advise you to spread your work out and choose one or topic areas to work on each week.

For each of them you must complete the questions listed in the third column of the table writing your **working** and answers on file paper. They are from the linked document below.

[This is the link to just the exercises](#)

[This is the link to the exercises with explanation](#)

[This is the link to the answers](#)

If you are finding the questions difficult first read the worked examples in the exercises with explanation (see the document above) and then, if this does not help, use any of the help links in the table.

When you have finished the questions for a section, mark them and use green pen for corrections.

Then:

- If you needed extra help or got more than one (or two) questions wrong then complete more questions on this topic from the extra practice section, making sure you mark all your work.
- If you find you can do the questions without any extra resources and get them correct, try the extension activity suggested – some are related to the original topic and some are just to get you thinking.
- If you are still unsure of a topic after doing the extra practice come back to it a couple of weeks later AND make sure you have highlighted it as an area to ask for help on.

Make sure all of the original questions and follow up work is filed in your folder to be shown to your teacher on the first day back.

| Date completed | Topic area | Diagnostic questions | Total no. of questions | Total no. correct | help | Extra practice | extension | RAG rate after follow up work is completed |
|----------------|---|--|------------------------|-------------------|--|--|---|--|
| | Solving linear equations | Ex. 1.1 q. 2,5 | 6 | | Video 1 Video 2 | Questions 1 solutions 1 Questions 2 solutions 2 | Leonardo's Problem | |
| | Changing the subject of a formula | Ex. 1.1 q. 3 Ex. 1.2 q. 2 Ex. 1.4 q. 2 | 11 | | video 1 | questions 1 solutions 1 | Pair Products | |
| | Quadratic expressions | Ex. 1.3 q. 1,2,7 | 16 | | video 1 | questions 1 solutions 1 questions 2 solutions 2 | Difference of 2 squares | |
| | Completing the square | Ex. 1.3 q. 4 | 6 | | video 1 | questions 1 solutions 1 | Hollow Squares | |
| | Algebraic fractions | Ex. 1.1 q. 7 Ex. 1.2 q. 4 Ex. 1.4 q. 1 | 25 | | Video 1 | Questions 1 solutions 1 | There's a limit | |
| | Simultaneous equations (linear and quadratic) | Ex. 1.5 q. 1,3,5,7,9 | 5 | | Video 1 | Questions 1 solutions 1 | RISP 8 HINTS | |
| | Indices | Ex. 1.6 q. 1,2,3 | 16 | | Video 1 | questions 1 solutions 1 questions 2 solutions 2 | Negative Power | |
| | Surds | Ex. 1.6 q. 5,6 | 10 | | video 1 video 2 | questions 1 solutions 1 questions 2 solutions 2 | The root of the problem | |
| | Straight line graphs | Ex. 3.1 q. 1a,c,e, 2a,c,e,g 3a,c,e | 10 | | Video 1 | Explanation and interactive questions | RISP 34 HINTS | |
| | Shapes of Curves | Ex. 3.2 q. 1,3,5,7,9,11 | 6 | | Video 1 | Questions 1 solutions 1 | Shapes of curves | |