

A Level Bridging Work

Further Maths

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

Please complete Activities 1, 2 and 3.

Activity 1 – Getting Organised

Set up a file for Further Maths

It needs to have sections for the 10 areas – you will be told what to label these in September.

All the work you do needs to be marked, filed and brought back to school on the first day so your teacher can see what you have done.

Print off the table on the next page, complete it as you do the tasks and place it at the front of your file.

Activity 2 - Algebraic Manipulation.

Complete the following questions from the linked document below.

For each one you should write your answers on file paper, showing clear working out and then, after each section, mark your work using green pen to complete any corrections.

Remember to file your work at the end.

Questions:

Ex 1.1. q. 6

Ex 1.2 q. 3 and 5

Ex 1.3 q. 3, 4 and 5

Ex 1.4 q. 3, 4 and 5

[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, read the worked examples in the ‘exercises with explanation’ (see the document above) and then, if this does not help some of the questions have links to videos below.

[Ex 1.1 q. 6](#)

[Ex 1.2 q. 5](#) [ex 1.2 q. 3](#)

[Ex 1.3 q. 5](#)

[Ex 1.4 q. 4](#)

Activity 3 – Problem Solving

This is the link to the [AMSP website](#) where there are transition materials for year 11 to 12.

There are 6 different topic areas and each one has several presentations on a topic.

- Do NOT answer the exercises on these presentations.

- Pick 4 different topics (preferably all from a different section) and look at the problem solving tasks at the end of the presentation.
- You should complete 4 problem solving tasks in total – many have hints, tips and solutions.
- Write your working out clearly for each one – making it clear which topic area it was and what the problem was.
- If there are solutions make sure you have marked your work and done any green pen corrections.

Activity 4 – Research

What is a radian? How and why do we use it in maths and how is it connected to a degree?

Prepare a short powerpoint presentation about what you find out.

Print off the slides and place a copy in your file.

Self Evaluation of all tasks

Please complete this table, fill it in as you go and place at the front of your folder.

| Activity | | | | Date completed |
|---------------------------|-------------------|--------------------------------|-----------------|----------------|
| 1. Getting Organised | | | | |
| 2. Algebraic manipulation | Exercise | My Mark | RAG rate | |
| | 1.1 | out of 2 | | |
| | 1.2 | out of 6 | | |
| | 1.3 | out of 6 | | |
| | 1.4 | out of 10 | | |
| 3. Problem solving | Topic area | Title of task completed | RAG rate | |
| | | | | |
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| | | | | |
| 4. Research | | | | |