BUDMOUTH ACADEMY
WEYMOUTH

Sixth Form Pre-Course Task - Maths

Welcome to A Level Maths!

A level maths is a very interesting course where students explore many new areas of mathematics and many old areas in new depths. But it is a course with both lots of content and lots of challenging and difficult content. Year 13 course content builds on year 12 content. Historically students who don't have a secure knowledge of year 12 content really struggle with year 13. For this reason it's essential that you build good revision habits from the start, complete homework to a high standard and speak with your teacher when you are confused or stuck.

The course is split into Pure and Applied content. Some of the topics covered are a more in depth look at topics you have seen at GCSE, but many of them are brand new topics you won't have seen before.

Pure (66% of the course)	**Applied** (33% of the course)
Algebra Binomial Theorem Trigonometry Sequences Differentiation and Integration Exponentials and Logarithms Vectors	**Mechanics** Kinematics Newton's Laws Friction **Statistics** Data and the Large Data Set Statistical Distributions Probability Hypothesis Testing

In preparation for you joining us in September, please complete the following pre-course task and Bridging the Gap booklet where you will have the opportunity to showcase your prior knowledge, skills and to outline your specific areas of interest within this subject area more widely.

**You can write your responses directly into the boxes provided or type your responses on a separate document.*

TASK 1: Tell us how this subject links to your future aspirations.
For example, this might be the career you'd like to enter into or the apprenticeship/university course you'd like to pursue.

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Useful website for careers guidance:

https://www.ucas.com/explore/search/courses?query=
https://www.ucas.com/careers-advice
https://findapprenticeshiptraining.apprenticeships.education.gov.uk/courses
https://uk.indeed.com/
https://nationalcareers.service.gov.uk/

Pre-course reading recommendations:

- https://alevelmathsrevision.com/ Walkthrough videos, exam questions and revision.
- https://www.physicsandmathstutor.com/ A level past and practice papers
- https://www.youtube.com/@TLMaths Videos on topics within the course.

If you have any questions about this course or require any further information on the tasks set above, please contact Dr Stone

Please note that all pre-course tasks should be handed to your subject teacher by **Friday 11th September**, if these have been typed then please print them out before handing in.

We look forward to working alongside you and seeing all you can achieve on this course.