

A LEVEL MATHEMATICS

Year 12 Induction

WHAT DOES IT INCLUDE?

Pure Maths

Statistics

Mechanics

Proof, Algebra,
Graphs,
Sequences,
Trig, Logs,
Calculus,
Vectors

WHAT DOES IT INCLUDE?

Pure Maths

Statistics

Mechanics

Data processing
and Sampling,
Probability,
Binomial & Normal
Distribution

WHAT DOES IT INCLUDE?

Pure Maths

Statistics

Mechanics

Kinematics,
Motion under
Gravity, Forces,
Newton's Laws,
Simple
Moments

YEAR 12

Mock Examinations- After Easter

NB: Year 12 Exams actually count if you are only doing AS Level and are NOT continuing to A Level

YEAR 13

3 exams at the end of the course:

Pure and Mechanics (out of 100)

Pure and Statistics (out of 100)

Pure and Comprehension (out of 75)

HOW MUCH WORK IS INVOLVED?

- Lessons:
4 hours per week
- Study Periods:
1 hour per week (in school)
- Homework:
5 to 7 hours per week

This comes to 12 hours per week !

EXPECTATIONS

You will attain a
minimum **grade 7** in
GCSE Mathematics

EXPECTATIONS

You have CHOSEN to
do this course –
remember that nobody
is forcing you!

EXPECTATIONS

You must complete the
work on time and to a
good standard

EXPECTATIONS

Ensure you respect the materials that we LOAN you. They must be returned!

THE RIGHT CHOICE?

Ask yourself, 'have I made the
right choice?'

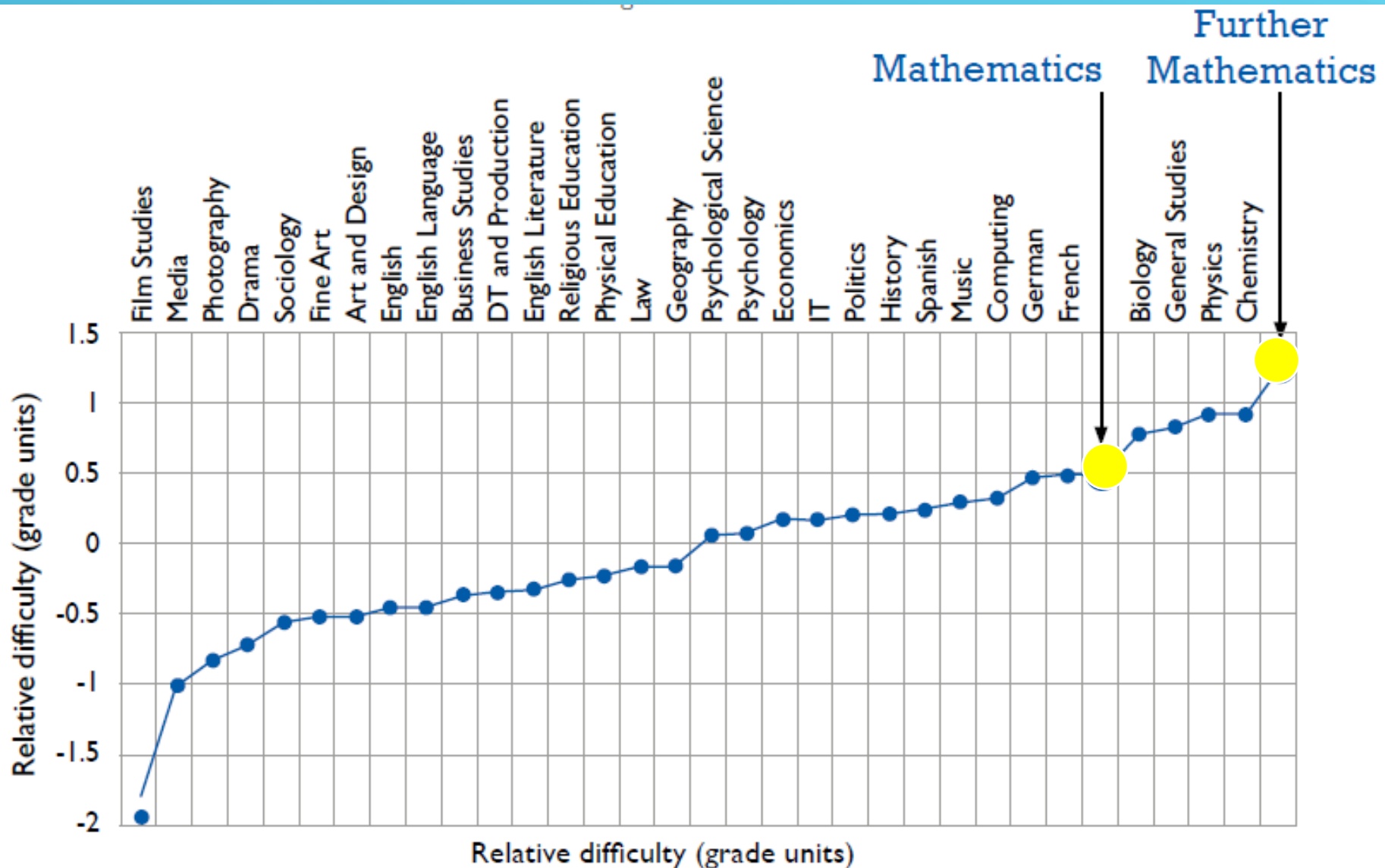
If you're going to work hard &
put in the hours, then yes you
have!



Mathematics is considered to
be one of the most challenging
A levels.

Not everyone is going to get a
grade A

How hard is Maths?



SUPPORT

- Excellent textbooks (with answers)
- IntegralMaths website (online support)
- New SharePoint
- After school support lessons

Your teacher – the course is designed to challenge you –
so ASK for help – don't
struggle on your own!

WHAT NEXT?

We need you fresh and ready to go in
September & not rusty!

priorylsst.co.uk > 6th form >
2026 Induction > Maths

Work through this online
material before September for
the best possible start

LET'S DO SOME MATHS

A problem worthy of attack
proves its worth by fighting
back!

PROBLEMS...

Expressions

Origami

Venn



Ladder

Quadratic powers

Click
the
activity

Quadratic Powers

How many valid solutions exist where
 $(x^2 - 7x + 11)(x^2 - 5x + 6) = 1$

?

A: 2

B: 3

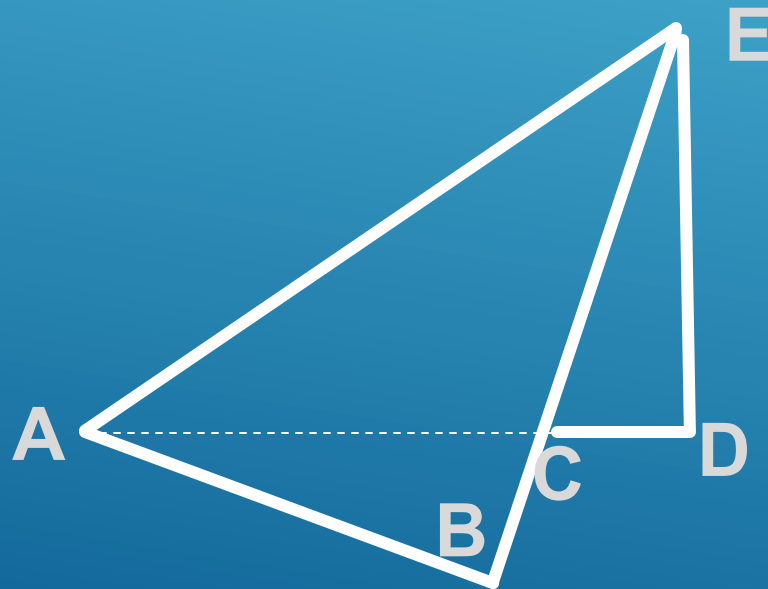
C: 4

D: 5



ORIGAMI...

A 3 by 4 rectangle is folded along one of its diagonals to form the pentagon ABCDE as shown. What is the perimeter of this pentagon?



EXPRESSIONS

Name a value of x which makes this list of expressions ascend in order.

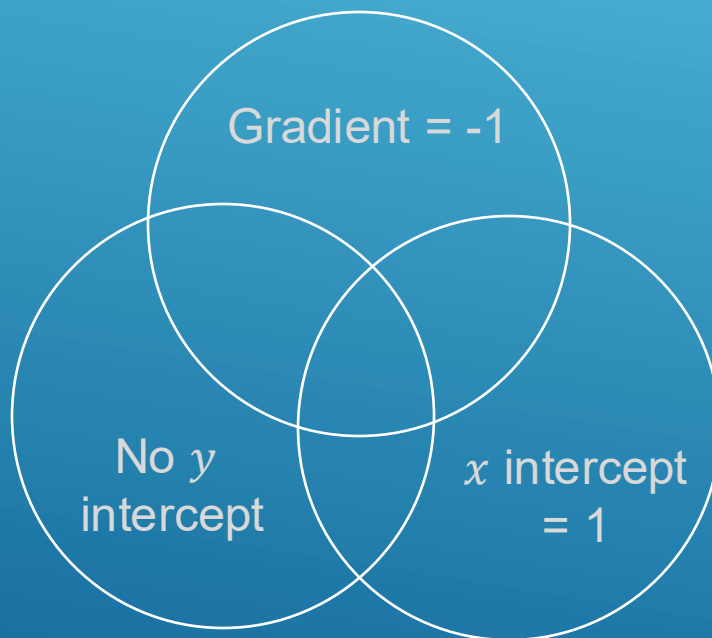
For what range of values is this true?

$$\boxed{2x} \quad \boxed{\frac{1}{x}} \quad \boxed{x} \quad \boxed{x^2} \quad \boxed{1-x} \quad \boxed{\frac{1}{x^2}}$$



VENN

Can you find a graph for each section?



LADDER....

A 3m ladder is rested against a wall. Between the wall and the base of the ladder is a garden storage box which is a 1m cube. What is the maximum distance up the wall the ladder can reach?

