#TRANSFORMINGLIVES

Hartlepool College
of Further Education

SCHOOL OF ENGLISH AND MATHS

GCSE MATHEMATICS

TRANSITION PACKAGE

WELCOME & COURSE INFORMATION

Welcome to Hartlepool College's GCSE maths team.

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We aim to teach maths in an interactive and approachable way in order to help you to better understand each subject area. We go over all of the main subject areas again and again allowing you a chance to thoroughly understand the rules and how the subjects relate to daily life and to employment. The team has a background in industry from call centers to painting and decorating and from local warehousing to International transport.

We use Eduqas as our examining body and the qualification is examined by two 2¼ hour exams taken in May and June each year. The results are usually out in the 4th week in August.

You will need to bring the following to each lesson: black pen, pencil, rubber, ruler, protractor, compass and scientific calculator.

WHAT WILL I STUDY?

These are the main subject areas covered although more subjects will be covered throughout the year.

GCSE Maths is split into the following four main areas:

• Number, ratio and proportion		
BIDMAS	Fractions, decimals and percentages	Simple and compound interest
• Algebra		
Substitution	Linear equations	Quadratics equations
• Geometry and measure		
2D and 3D shapes	Angles	Converting between different measures
• Statistics and probability		
Mean, median, mode and range	Pie charts, bar charts, scatter diagrams	Probability of an event happening

HOW CAN I PREPARE FOR THIS COURSE?

We have a lot of written and online materials once you start the course but the following is a very good, free to use, resource:

BBC bitesize https://www.bbc.co.uk/bitesize/examspecs/z32pdmn

ADDITIONAL INFORMATION

Achieving a good grade at GCSE can make a huge difference to your life chances and your financial wellbeing:

"Individuals who achieve five or more good GCSEs including English and maths as their highest qualification, have estimated lifetime productivity returns in excess of £100,000, compared to those with below level 2 or no qualifications."
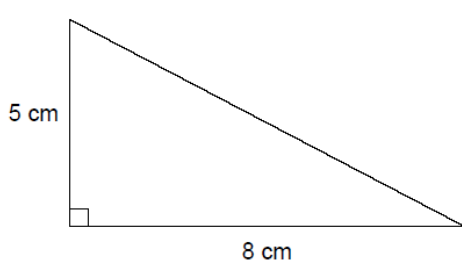Department for education.

KEY TASKS

Maths is a subject that gets easier the more you practice. The three areas that will help with all subjects are:

- Times tables
- Conversions of metric units: Length, weight and volume.
- Basic fractions decimals and percentages and their equivalents

Now complete the following tasks

TRANSITION ACTIVITY 1: CALCULATE THE AREA OF THE TRIANGE

Not drawn accurately

5 cm

8 cm

Calculate the area of the triangle.

[2 marks]

_____

_____

Answer _____ cm^2

TRANSITION ACTIVITY 2: CONVERT UNITS

You are given that

$$1 \text{ pound} = \frac{5}{11} \text{ kg}$$

Use this to change 9 pounds into kilograms.

Give your answer as a mixed number

[3 marks]

Answer _____ kg

TRANSITION ACTIVITY 3: EXPAND AND SIMPLIFY

Expand and simplify $3(4w + 1) - 5(3w - 2)$

[3 marks]

Answer _____

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