#TRANSFORMING**LIVES**

Hartlepool College
of Further Education

SCHOOL OF ENGLISH AND MATHS
LEVEL 2 PEARSON EDEXCEL
FUNCTIONAL SKILLS MATHEMATICS

TRANSITION PACKAGE

WELCOME & COURSE INFORMATION

Richard, Alan, Mark, Jonathon, Anthony and Mike are all looking forward to meeting you. We make up the majority of the maths tutors at HCFE and have a very successful record of delivering maths courses such as all levels of Functional Skills and GCSE 1-9.

If you are 16-18 on a full-time programme of study, lessons will be scheduled within your timetable. If you are 19+ and studying part-time, we offer morning, afternoon and evening classes. The qualification that you achieve on passing the end-exam will help improve your C.V and is also recognised by both Universities and employers to help you make that next step along your chosen career path.

This qualification not only gives the learners the opportunity to demonstrate a sound grasp of both the underpinning and basic skills of mathematics but also how and when to apply these skills in order to solve simple problems in familiar and unfamiliar every day situations.

WHAT WILL I STUDY?

The Pearson Edexcel Functional Skills Qualification in Mathematics at Level 2 consists of one externally marked assessment.

Each assessment comprises two sections – a non-calculator section A (calculator prohibited) and a calculator section B (calculator permitted). The assessments are available as paper-based and onscreen, on-demand assessment.

Functional Skills Level 2 consists of 3 main areas of mathematics:	
• Using numbers and the number system	
Number operations and their precedence	Rounding and Estimations
Decimals	Fractions
Percentages	Ratio and direct/indirect proportion
Formulae using words and letters	
• Using common measures, shapes and space	
Converting units	Money
Speed and density	Working with lengths
Using scales on maps and drawings	Plans and elevations
Area and perimeter of 2D shapes	Volume of cubes and cuboids and prisms
Using and measuring angles	3D shapes and NETS
Using co-ordinates	
• Handling information and data	
Representing data in tables, scatter diagrams, charts and graphs	Finding the mean, median, mode and range of data
Probability	Group frequency tables

HOW CAN I PREPARE FOR THIS COURSE?

Equipment required:
- Pen
- Rule
- Compass
- Pencil
- Protractor
- Calculator

There are many topics within mathematics that are advantageous to know thoroughly before embarking on any mathematical qualification; these include, but are not limited to:

- Times-tables, factors and multiples
- Addition/subtraction/multiplication/division without a calculator
- Measure, read and identify basic lengths and weights
- Read, measure and record time 12hr and 24hr clock
- Extract information from lists, tables, diagrams and charts

Try viewing weak topic areas via YouTube or access BBC Bitesize or similar: perhaps there was one you used during school?

Try to apply mathematics to everyday situations whenever you can, during sports, gaming or shopping.

Try downloading problem solving apps to your phone to strengthen your skills and reasoning.

Avoid using a calculator whenever you can.

ADDITIONAL INFORMATION

Mathematics results at Hartlepool College have gone from strength to strength over the last few years. We are consistently level or well-above the National Rates for colleges in England for both Functional Skills and GCSE and have been recently nominated in the TES FE Awards 2020 for outstanding mathematicss and English provision.

KEY TASKS

Learn the basic times-tables; studies show this is the single most important thing a learner can do.

Practice adding, subtracting, multiplying and dividing without using a calculator to sharpen your mental arithmetic.

These skills will give you a solid foundation to build upon and help to make your working fluent.

Complete the following tasks on the back page.

TRANSITION ACTIVITY 1: BAG

A bag contains only red counters and blue counters.

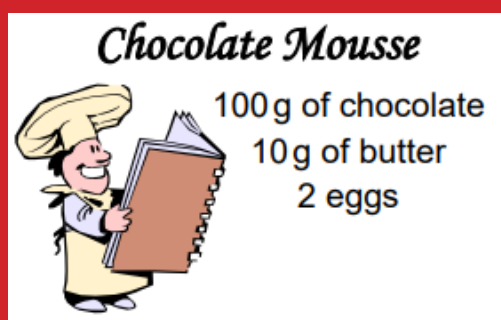There are 90 red counters in the bag.

The probablility of choosing a red counter is 0.3.

How many blue counters are in the bag?

TRANSITION ACTIVITY 2: CHOCOLATE MOUSSE

Here is a recipe for chocolate mousse

Chocolate Mousse

100g of chocolate
10g of butter
2 eggs

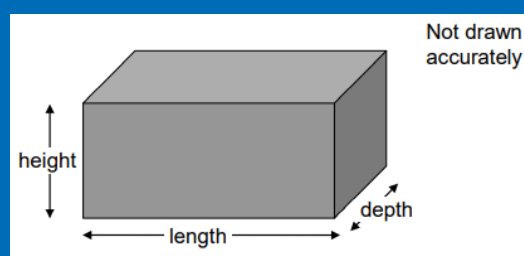This is enough chocolate mousse for two people.
I have 8 eggs, 45g of butter and 350g of chocolate.
What is the maximum number of people I can make chocolate mousse for?

TRANSITION ACTIVITY 3: CUBOID RATIO

The ratio of the
length : height : depth is 1: 2 : 3
Total surface area is 4950cm^2

Find the length, height and depth of the cuboid.

Not drawn accurately

height

length

depth

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