

## Felpham Community College – Key Stage 3 Overview

<b>Subject:Maths</b>	<b>Year:8</b>	<b>Leader:D Gingell</b>
<b>Autumn Term 1</b>	<b>Activities</b>	<b>Homework: set weekly by teacher</b>
Topic: Treasure maps  Restaurant	Estimating and measuring distances, understand the eight points on a compass, drawing and measuring bearings, using a variety of scales.  Ratio and proportion through recipes, metric and imperial conversions, unitary method, money calculations	<u>Assessment opportunities</u> Create a treasure map and give detailed bearing instructions.
Literacy / Numeracy / ICT Treasure maps – Literacy skills can be developed through the writing of a questions to be used with maps		
<b>Autumn Term 2</b>	<b>Activities</b>	<b>Homework: set weekly by teacher</b>
Topic: Myth busters  Top trumps	Creating and testing a hypothesis, scatter diagrams and correlation, review of MMR  Negative numbers, order of operations, substitution, formulas	<u>Assessment opportunities</u> Test on work covered in treasure maps, restaurant and myth busters.
Literacy / Numeracy / ICT Mythbusters – Literacy skills can be developed through the writing of a hypothesis and analysis/interpretation of data.		
<b>Spring Term 1</b>	<b>Activities</b>	<b>Homework: set weekly by teacher</b>
Topic: Surviving in the real world Bugs  Logos	Fractions, decimals, percentages, in the context of shopping and discounts Multiples, factors, primes, HCF LCM, squares, cubes, index notation, sequences  Transformations: reflection rotation enlargement and translation on a square grid/ coordinate axes.	
Literacy / Numeracy / ICT Surviving in the real world– Numeracy skills in context developed.		
<b>Spring Term 2</b>	<b>Activities</b>	<b>Homework: set weekly by teacher</b>
Topic: Be a detective  Math magic	Frequency charts and finding the mean from these stem and leaf diagrams and finding the median from these, comparing two sets of data, modal group and range.  Simplifying algebraic expressions, expand and factorise single bracket, form and solve linear equations	<u>Assessment opportunities</u> Test on work covered in top trumps, surviving in the real world and bugs.
Literacy / Numeracy / ICT		
<b>Summer Term 1</b>	<b>Activities</b>	<b>Homework: set weekly by teacher</b>
Topic: Shape sorter  Home improvement	Identify and describe symmetry, length and angle properties of shapes, constructions for perpendicular and angle bisectors, calculating area of rectangles, triangles, parallelograms and trapeziums, find perimeters.  Estimation and approximation, rounding to significant figures and decimal places, non calculator methods of multiplication and division to incl decimals	
Literacy / Numeracy / ICT		
<b>Summer Term 2</b>	<b>Activities</b>	<b>Homework: set weekly by teacher</b>
Topic: Taxi Odds on	Identifying properties of real life graphs, linking functions and graphs Expressing probabilities, relative frequencies. Listing all possible outcomes	<u>Assessment opportunities</u> End of year 8 assessment.
Literacy / Numeracy / ICT Numeracy/Money in everyday life		
Website / Resources <a href="http://www.mymaths.co.uk">www.mymaths.co.uk</a> <a href="http://www.kangaroomaths.com">www.kangaroomaths.com</a> (Kenny's pouch) <a href="http://www.bbc.co.uk/schools/ks3bitesize">http://www.bbc.co.uk/schools/ks3bitesize</a>		