



Baldragon Academy

Mathematics

Course Plan

S5/6

National 5 Applications

# Summer Term

## May - June

25 Periods (based on 5 periods per week)

Flexibility built in, given last week is just before summer holidays

### Unit 1 Managing Finance and Statistics

TOPIC	Timing (Periods)	Lessons
Budgeting	3	-Intro -Practice -Activity
Income	6	-Overtime -Commission/Bonus -Gross Pay/Deductions/Net Pay -Income Tax bands and allowances
Working with Money	12	-Best Deals -Foreign Currency -VAT -Hire Purchase -Insurance -Profit/loss -Simple Interest -Compound Interest -Borrowing money (loans, credit Cards)
Finance part of Assessment	2	-Revision -Questions 1-4 on Managing Finance and stats assessment

## Summer Holidays

# Autumn Term

## August - October

40 periods based on 5 periods per week

TOPIC	Timing (Periods)	Lessons
Averages and Spread	6	-Mean, Median, Mode and Range -Quartiles/SIQR -Boxplots x2 -Standard Deviation x2
Scatter graphs	2	-Drawing Scattergraphs -Correlation and Line of Best Fit
Probability	4	-Probability -Expected Frequency -Probability Trees
Stats Part of Assessment	2	-Revision -Assessment Q 5-6
<b>Unit 2 Geometry and Measure</b>		
Rules and Formulae	3	-Formulae with Words -Formulae with symbols -More Practice
Tolerance	3	-Tolerance Max and Min/Putting into tolerance notation. -Tolerance with percentages -Effects of applying Tolerance
Distance Speed and Time	5	-DST revision -Examples when changing to decimal times -Examples when changing back to hours and minutes -Exam Type Questions x2
Scale Drawings	5	-Revision of Scale Drawings -Scale Drawing using a protractor -Scale drawings involving Bearings x2
Precedence Tables	2	-Exam Type Questions
Packing Problems	2	Textbook Exercise
First Part of G and M assessment	2	-Revision -Questions 1-5

# Holidays

## Winter Term

### October - December

45 periods based on 5 periods per week

A bit of flexibility built in for revision, mini-assessments, consolidation and missed days. (Teachers Discretion)

TOPIC	Timing (periods)	Lessons
Pythagoras	3	-Revision -Problem Solving x2
Gradient	3	-Revision -Gradient Problems -Gradient Problems with Pythagoras
Perimeter and Area	5	-Perimeter -Circumference -Area of 2d shapes -Area of a circle -Composite Areas
Volume	9	-cube and cuboid -Prisms -cylinder -capacity -pyramid -cone -sphere -composite shape -volume questions involving pythagoras
Second part of G and M assessment	3	-Revision -Assessment Q5-7
<b>Unit 3 Numeracy</b>		
Rounding	3	-Decimal Places -Significant Figures x2

Decimals	3	-Add and subtract -Multiply -Divide
Fractions	6	-convert between top heavy and mixed -fraction of amount -adding and subtracting -converting fdp
Ratio	3	-Writing and simplifying -Ratio Problems -Sharing in a given ratio
Interpreting from Tables And Charts	6	-Compound bar charts -scattergraphs -pie charts -stem and leaf -information Tables -reading scales

Holidays

## Spring Term

January- March

60 periods based on 5 periods per week

### Unit 3 Applications

TOPIC	Timing (periods)	Lessons
Percentages	5	-Finding percentages -compound increase -appreciation and depreciation -expressing a quantity as a percentage -percentage profit/loss
Proportion	3	-direct -indirect

Numeracy Assessment	2	Revision and assessment
<b>Prelim (revision)</b>	6	Date TBC
<b>End of Course</b>		

Once finished course spend the rest of time going over weak topics, and Exam Preparation