S3 Preparation for National 4 Apps

Unit 1 Numeracy	
Whole Numbers Time – 1 week	Suggested Resource – TJ 3G Pages 9 -13
Addition and subtraction	Add and subtract whole numbers up to 4 digits
Multiplication and division	Multiply up to 4 digit whole numbers by one or two digit whole numbers Divide up to 4 digit whole numbers by one digit whole numbers Multiplying and dividing a whole number by 10, 100 1000 Multiplying and dividing a whole number by multiples of 10 and 100 Calculations in real life context
Rounding	Rounding to the nearest unit, 10, 100, 1000
Reading and Writing whole numbers	Express Numbers up to 10 000 in words and figures
Decimals, Percentages and Fractions Time – 3 weeks (upto start of summer holidays)	Suggested Resource - TJ 3G Pages 30-49, 124 – 127, 180-181
Rounding decimals	Rounding to one and two decimal places
Add, subtract, multiply and divide decimals	Calculations with decimal numbers (up to 2 d.p) in context Multiplying and dividing a decimal number by 10,100, 1000 Multiplying a decimal by multiples of 10
Percentages	Find simple percentages of quantities, both with and without a calculator
Fractions	Identify fractions of a shape and find simple fractions of a shape and a quantity
Linking fractions, decimals and percentages	Convert common fractions and percentages into all three forms
Measurement Time – 2 week	Suggested Resource - TJ 3G Pages 28-30, 107-110
Units of measurement	Know the units of measurements for time, length, weight, volume and temperature and be able to make simple conversions Use measuring instruments with simple scales to measure length, weight, volume and temperature
Scales	Read scales to the nearest marked, numbered division with a functional degree of accuracy Centimetres to be measured to the nearest cm and for small objects, accuracy should be ±2 millimetres.
Read and interpret measurements and scales	Interpret results of measurements involving time, length, weight, volume and temperature and use these to make comparisons Make simple decisions based on measurements or reading scales
Make decisions based on measurements	
Data Time 1 week	Suggested Resource - TJ 3G Pages 132-137

Extracting data from graphical form Interpreting graphs and making decisions based on the interpretation of data	Reading information from: - a table with at least three categories of information - a chart such as a bar chart, pictogram or simple pie chart - a graph such as a single line graph where the scale is obvious - a diagram such as a 2D plan Make decisions based on: - observations of data from a graph or a table - calculations involving graphs and tables

Probability Time – 1 week	Suggested Resource - TJ 3G Pages 214-217
Understanding probability Making decisions based on probability	Understand the likelihood of an event happening Be able to arrange events on a probability line Make decisions based on probability
	Assessment Time –1 week (week 5 of term 1)

UNIT 2 MANAGE MONEY AND DATA	
Managing Money Time – 3 weeks	Suggested Resource - TJ 3G Pages 64-71, 76-77, 80-82 plus Teejay Level 3 Budgeting Unit and Teejay Level 3 Needs and Wants Unit click or visit http://www.teejaypublishers.co.uk/html_scot/finance.html
Identifying factors affecting income and expenditure Preparing a simple budget Developing a basic savings plan Making a decision based on the best deal	Wages: - Basic pay (weekly, monthly and annual) - Overtime (double time only) - Income Tax - Net Pay and Gross Pay - Payslips Benefits and allowances VAT 'needs and wants' (eg utility bills, food shopping, clothing etc) Balancing income and expenditure. Budgeting for an item or event Compare two products, given two pieces of information on each.
Managing Data Time – 2 weeks	Suggested Resource - TJ 3G Pages P144-145, TJ 2a pages 180-184 plus pupils to conduct a survey and display and interpret results.
Organising primary data Carrying out simple calculations to compare data Representing data in an appropriate format Interpreting simple data to draw conclusions	Using data sets to complete tally charts or frequency tables Calculating range, mode, median and mean for small data sets Using these calculations to compare data sets Using a data set or a table to draw basic statistical diagrams with simple scales. Diagrams to include: - pictograms - bar charts - line graphs Make conclusions based on: - mean, median, mode and range - calculations involving graphs and tables
	Assessment Time – 1 week (Week 3 of term 2)

UNIT 3 SHAPE SPACE AND MEASURE	
Perimeter and Area Time 1 week	Suggested Resource - TJ 3G Pages 163-168
Calculating and using the perimeter and area of a regular 2D shape Stating and using simple formulae expressed in words or symbols	Find the perimeter of squares, rectangles and other simple 2D shapes Find the area of a square or rectangle by counting squares Find the area of a rectangle using the formula either in words or symbols.
Volume Time – 2 periods	Suggested Resource – TJ Level E Pages 183-188
Calculating and using the volume of a cuboid Stating and using simple formulae expressed in words or symbols	Find the volume of a cube or cuboid by counting cubes Find the volume of a cuboid using the formula either in words or symbols.
Directions Time – 1 period	Suggested Resource – TJ Access 3 P 178-179
Giving or following directions	Following directions for a simple route or journey eg following a route on a simple map or describing a journey
Patterns Time – 1 period	Suggested Resource - TJ 3G Pages P205-208
Working with simple patterns	Repeating, continuing or creating patterns involving shape
Scale Time – 1 week	Suggested Resource - TJ 3G Pages P50 -57
Interpreting simple scale drawings Applying a basic scale factor	Calculate the real length of an object from a simple scale drawing with a scale expressed in words or numbers Enlarging or decreasing a length or shape using a basic scale factor
Time Management Time – 1 week	Suggested Resource - TJ 3G Pages 107-110
Calculating time intervals to manage tasks or activities	Convert between 12-hour and 24-hour time Calculate time intervals Read and interpret timetables

Assessment Time – 1 week (Week 8 of term 2)