

## Scheme Of Work 2020 - 2021

### Subject: Maths

**Year Group: 7** Nurture

**Specification: KS3 Maths Progress Pi**

**Active Learning Opportunities**

**Year 1**

Lesson No	Topic & Objectives	Key Activities & Specialist Terminology	Big Think Q's & Stretch	GCSE Q Stem	Homework	Lit Num SMSC Codes
<b>11hrs</b>	<b>Analysing &amp; Representing Data</b>					
1	1.1 Tables and pictograms	Find information from tables and pictograms.	Where else have you seen the use of tables and pictograms	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
2	1.2 Bar charts	Find information from bar and bar-line charts.	Create a bar chart that shows something you are interested in	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9

3	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>	Display data using bar and bar-line charts.	Find data from a secondary source and compare it to your primary source data. What do you realise?	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
4	1.3 Grouped data	Organise data using a tally chart.	Tally the colours of cars that pass.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
5	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>	Understand and use frequency tables.	Use your frequency table to make a prediction	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
6		Understand and draw a grouped bar chart.				

7	1.4 Mode and modal class	Find the mode of a set of data.	Why is the Mode different to all other averages?			
8	<b>Do Now:</b> Numeracy Ninja <b>Plenary:</b> TEQ (Typical exam question) <i>Show me boards, Coaching, Independent Study, Student teachers etc</i>	Find the modal class of a set of data.		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
9	1.5 Range and median	Find the range and median of a set of data.		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
10	<b>Do Now:</b> Numeracy Ninja <b>Plenary:</b> TEQ (Typical exam question) <i>Show me boards, Coaching, Independent Study, Student teachers etc</i>	Compare sets of data using their range, mode and median	What does the Range tell use about consistency	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
11	1.6 Mean	Calculate the mean of a set of data.				

12	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>		FLIPPED LEARNING - what is ment by the term estimate mean?	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 1	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
<b>Lesson No</b>	<b>Topic &amp; Objectives</b>	<b>Key Activities &amp; Specialist Terminology</b>	<b>Big Think Q's &amp; Stretch</b>	<b>GCSE Q Stem</b>	<b>Homework</b>	<b>Lit Num SMSC Codes</b>
<b>12hrs</b>	<b>Calculating</b>					
13	2.1 Adding	Add numbers together in different ways.	987654+456789	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
14		Round to the nearest 10.	9876543 round nearest 10, 100 ,1000			

15	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>	Approximate before adding.	2.6 X 7.2	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
16	2.2 Subtracting	Subtract numbers in different ways.				
17	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>	Approximate before subtracting.	456-8765	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
18	2.3 Multiplying	Multiply numbers.	76 X87	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9

19	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  <i>Show me boards, Coaching, Independent Study, Student teachers etc</i></p>	Recognise multiples.		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
20		Recognise square numbers.	FLIPPED LEARNING - What is a square root?	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
21		Find roots of square numbers on a calculator.		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9

22	2.4 Dividing	Divide one number by another.		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
23	<b>Do Now:</b> Numeracy Ninja <b>Plenary:</b> TEQ (Typical exam question) Show me boards, Coaching, Independent Study, Student teachers etc	Use times tables to help you divide.	568/4	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
24		Use approximation to estimate division calculations.	34/6	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9

25	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>	Multiply and divide by 10, 100 and 1000.	Create a rule for multiplying and dividing by multiples of 10	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
26	2.6 Using the four operations	Use addition, subtraction, multiplication and division.		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
27	<p><b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>	Solve simple ratio and proportion problems.	describe a ratio with your class.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9



28	2.7 Positive and negative numbers	Use simple negative numbers.	What other subjects do you use negative numbers. Give examples	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 2	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp9
29	<p><b>Do Now:</b> Numeracy Ninja</p> <p><b>Plenary:</b> TEQ (Typical exam question)</p> <p>Show me boards, Coaching, Independent Study, Student teachers etc</p>	Continue a sequence.	FLIPPED LEARNING - What is the fibonacci sequence	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 3	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp10
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<b>11hrs</b>	<b>Expressions and formula</b>					

30	<p>3.1 Using functions  <b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  <i>Show me boards, Coaching, Independent Study, Student teachers etc</i></p>	Find outputs of simple functions.	Create your own number machine.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 3	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp10
31	<p>3.2 Function machines  <b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  <i>Show me boards, Coaching, Independent Study, Student teachers etc</i></p>	Describe simple functions using words or symbols.	Discribe the relationship of your family's ages using algerbraic language.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 3	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp11
32	<p>3.3 Simplify expressions  <b>Do Now:</b> Numeracy Ninja  <b>Plenary:</b> TEQ (Typical exam question)  <i>Show me boards, Coaching, Independent Study, Student teachers etc</i></p>	Simplify expressions.	$4N + X - N + 6X$	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 3	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp12

33	<p>3.4 Writing expressions Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards, Coaching, Independent Study, Student teachers etc</p>	Write expressions given a description in words.	I think of a number and add 7. I then mutiple the result by 6 and divide my answer my 2. I then add 1	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 3	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp13
34	3.5 STEM: Using formulae	Substitute positive integers into simple formulae written in words.	$N + 6 \times 2$ If N is your age	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 3	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp14
35	<p><b>Do Now:</b> Numeracy Ninja <b>Plenary:</b> TEQ (Typical exam question) Show me boards, Coaching, Independent Study, Student teachers etc</p>	Substitute integers into simple formulae written in letter symbols.		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework Sheet 3	So2, So6, So7 , M1, C3, C5, C6 , Sp2 Sp15

36	<p>3.6 Writing formulae  Do Now: Numeracy Ninja  Plenary: TEQ (Typical exam question)  Show me boards, Coaching, Independent Study, Student teachers etc</p>	<p>Write simple formulae using words and letter symbols.</p>	<p>Use algebraic formulae to describe how to find the perimeter of a shape or its area.</p>	<p>TEQ - Show understanding of worded questions and how marking schemes test working practices</p>	<p>Monopolise your homework Sheet 3</p>	<p>So2, So6, So7, M1, C3, C5, C6, Sp2 Sp16</p>
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