Scheme Of Work 2019 - 2020 Subject: Maths

Year Group: 8

Specification: KS3 Maths Progress Delta

Active Learning Opportunities

Stretch & Challenge (NACE)

Year 2

Lesson	Topic & Objectives	Key Activities & Specialist Terminology	Big Think Q's & Stretch	GCSE Q Stem	Homework
12hrs	Real life graphs				
30	direct proportion.	4.1 Direct proportion	The weight of a piece of wire is directly proportional to its length. A piece of wire is 25 cm long and has a weight of 6 grams. Another piece of	questions and how marking	Monopolise
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	the same wire is 30 cm long.		

31	Plot graphs and read values to solve problems.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc	Calculate the weight of the 30 cm piece of wire	questions and	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	Related question teacher judgement		
32	sources.	4.2 FINANCE: Interpreting financial graphs	This is part of a graph to change between New Zealand Dollars (NZ\$) and Pounds (£).	questions and	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	lice the granh to help convert 20		

33	Understand financial graphs.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc	New Zealand Dollars (NZ\$) into Pounds (£).	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	Related question teacher judgement		
34	Draw and interpret distance–time graphs.	4.3 Distance-time graphs	Bethany drove to a family meal and then back home. The meal was at a restaurant that is 70 kilometres from her home. Bethany left home at 10:00 and arrived at the restaurant at 11:30. She stayed at the family meal for 2 hours. Bethany then drove home at a speed of 35 kilometres per hour. Show this information on the distance-time graph.	questions and	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	Related question teacher judgement		

35	Use distance—time graphs to solve problems.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc	Anil cycled from his home to the park. Anil waited in the park. Then he cycled back home. Here is a distance-time graph for Anil's complete journey. At what time did Anil leave home? What is the distance from Anil's home to the park?	questions and	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	Related question teacher judgement		
36	Interpret graphs that are curved.	4.4 Rates of change	The graph shown can be used to convert between pounds and euros. Use the graph to change £350 to euros Use the graph to change 210 euros to £	questions and how marking	Monopolise
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	Related question teacher judgement		

37	Interpret real-life graphs.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc	Rebecca rollerbladed from her home to the playground. Rebecca rested in the playground for some time. She then rollerbladed home. Here is a distance-time graph of Rebecca's journey. How long did it Rebecca take to rollerblade from her home to the playground?	questions and how marking	Monopolise
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 45-51	Related question teacher judgement		
38	Understand when graphs are misleading.	4.5 Misleading graphs	What is wrong with the information represented on this graph?	questions and how marking	Monopolise
Lesson	Topic & Objectives	Key Activities & Specialist Terminology	Big Think Q's & Stretch	GCSE Q Stem	Homework
12hrs	Transformations	•			

39	Describe and carry out translations.	5.1 Reflection and translation	Triangle A is reflected in the x-axis to give triangle B. Draw the triangle B and label it B.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	ł	Excercises from pages 28-41	Related question teacher judgement		
40	Describe and carry out reflections.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc	riangle B is reflected in the line x = 1 to give triangle C. Draw the triangle C and label it C	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41	Related question teacher judgement		

41	Describe and carry out rotations.	5.2 Rotation	On the grid, rotate triangle A 180° about O. Label your new triangle B.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41	Related question teacher judgement		
42	Enlarge a shape.	5.3 Enlargement	On the grid, enlarge the shaded shape by scale factor of 2, centre (1,1).	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41	Related question teacher judgement		

43	Describe an enlargement.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc	If an enlargement causes the shape to become smaller, the scale factor is A)less than 1 B)equal to 1 C)Greater than 1	questions and	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41	Related question teacher judgement		
44	Enlarge a shape using negative scale factors.	5.4 More enlargement	Enlarge the shaded triangle by a scale factor 1 , centre P.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41	Related question teacher judgement		

45	scale factors.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards, Coaching, Independent Study, Student teachers etc	Enlarge the triangle ABC by a scale factor of about the centre of enlargement O.	questions and	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41	Related question teacher judgement		
46	rotation, enlargement and translation.	5.5 STEM: Combining transformations	Shape P is reflected in the line x = -1 to give shape Q. Shape Q is reflected in the line y = 0 to give shape R. Describe fully the single transformation that maps shape P onto shape R.	understanding of worded questions and how marking	Monopolise
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41	Related question teacher judgement		

47	symmetry in 3D solids.	5.6 2D shapes and 3D solids		TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41			
48	Find the perimeter and area of 2D shapes after enlargement.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards, Coaching, Independent Study, Student teachers etc	Shade two more triangles to make a pattern with 1 line of symmetry.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 28-41			

49	Find the volume of 3D solids after enlargements.	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc		TEQ - Show understanding of worded questions and how marking schemes test working practices	homework
Lesson	Llopic & Objectives	Key Activities & Specialist Terminology	Big Think Q's & Stretch	GCSE Q Stem	Homework
12hrs	Fractions, decimals & percentages		-		
50	to important recurring decimals	6.1 Recurring decimals	Write 1.54 as a fraction. (4 is recurring)	TEQ - Show understanding of worded questions and how marking schemes test working practices	homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 55-59	Related question teacher judgement		

51 S & C	ł	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc Excercises from pages 55-59	Write 0.77 as a fraction in its lowest terms.	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
52 S & C	•	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc Excercises from pages 55-59	Related question teacher judgement	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework

53	Calculate percentages	6.2 Using percentages	In April 2004, the population of the European Community was 376 million. In April 2005, the population of the European Community was 451 million. Work out the percentage increase in population. Give your answer correct to 1 decimal place.	questions and	homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 55-59	Related question teacher judgement		
54	+	Do Now: Numeracy Ninja Plenary: TEQ (Typical exam question) Show me boards,Coaching, Independent Study, Student teachers etc	An antique is sold for £550 which is a 10% increase on the price that it was originally bought for. How much was the antique originally bought for?	TEQ - Show understanding of worded questions and how marking schemes test working practices	homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 55-59	Related question teacher judgement		

55		6.3 Percentage change	Find the pecentage decrease From £980 to £343	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework
S & C	Pixl Maths Aiming for grade 1	Excercises from pages 55-59	Related question teacher judgement		
56	Calculate the effect of repeated percentage changes.	6.4 FINANCE: Repeated percentage change	If you deposit £1,000 in a bank account which is paying 3% compound interest per year. How much interest would be earned over 3 years?	TEQ - Show understanding of worded questions and how marking schemes test working practices	Monopolise your homework

Lit Num SMSC Codes

So2, So6, So7, M1, C3, C5, C6, Sp2 Sp9

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