لجامعة الخاصة Sarh Al Jaameah P				Math	s Curriculum Map – Grade 3		
Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Le
					TERM 1		
					WHOLE NUMBERS 1 – UNIT 1		
T1. 8/9 - 19/9	2	8	 Unit 1: Whole Numbers 1 Develop understanding of numbers to 1000. Build on knowledge of place value, focusing particularly on three-digit numbers. Practise counting, reading and writing three-digit numbers and move on to identify their constituent parts. 	Number - Numbers and the Number System Problem Solving	 3Nn1 Recite numbers 100 to 200 and beyond. 3Nn2 Read and write numbers to at least 1000. 3Nn3 Count on and back in ones, tens and hundreds from two- and three-digit numbers. 3Nn4 Count on and back in steps of 2, 3, 4 and 5 to at least 50. 3Nn5 Understand what each digit represents in three-digit numbers and partition into hundreds, tens and units. 3Nn6 Find 1, 10, 100 more/less than two- and three-digit numbers. 3Nn9 Place a three-digit number on a number line marked off in multiples of 100. 3Nn10 Place a three-digit number on a number line marked off in multiples of 10. 3Ps3 Explore and solve number problems and puzzles, e.g. logic problems. 3Ps5 Describe and continue patterns which count on or back in steps of 2, 3, 4, 5, 10, or 100. 3Ps6 Identify simple relationships between numbers, e.g. each number is three more than the number before it. 	100 Square Number cards 0–1000 Countable objects 2, 5, 10 cards Interlocking cubes 1–6 spinner Number lines	
			WHOLE		S 1 UNIT 1 ASSESSMENT – 19 TH SEPTEMB	ER 2019	
					TION AND SUBTRACTION 1 – UNIT 5		
T1. 22/9– 3/10	2	8	Unit 5: Addition and Subtraction 1 Add and subtract multiples of 10 and 100 and identify the resulting changes to numbers. Investigate how to alter calculations to make them easier, for example, by re- ordering an addition.	Calculation – Mental Strategies Addition/ Subtraction	 3Nc1 Know addition and subtraction facts for all numbers to 20. 3Nc2 Know the following addition and subtraction facts: multiples of 100 with a total of 1000 multiples of 5 with a total of 100. 3Nc9 Add and subtract 10 and multiples of 10 to and from two- and three-digit numbers. 3Nc10 Add 100 and multiples of 100 to three-digit numbers. 3Nc11 Use the = sign to represent equality, e.g. 75 + 25 = 95 + 5. 3Nc12 Add several small numbers. 3Nc16 Re-order an addition to help with the calculation, e.g. 41 + 54, by adding 40 to 54, then 1. 	0 - 100 number cards Counters Interlocking cubes Base 10	
				Problem Solving	 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt3 Make sense of and solve word problems, single (all four operations) and two-step (addition and subtraction), and begin to represent them, e.g. with drawings or on a number line. 3Pt4 Check the results of adding two numbers using subtraction, and several numbers by adding in a different order. 3Pt5 Check subtraction by adding the answer to the smaller number in the original calculation. 		

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E-Learning	Comments
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	Learners sometimes write HTU numbers 'literally', for example, writing one hundred and forty- two as 100402. In the decimal number system, zero is used as a placeholder. It is important that learners are exposed to this idea and encouraged to use the vocabulary of 'zero showing an empty column or place'.
	Help learners to break longer additions down, so they add two numbers at a time. Use the word sum strictly in the context of addition and explain when learners use it incorrectly. Spend time reinforcing the meaning of = as is the same as and not the answer to a question.

لجامعة الخاصة Sarh Al Jaameah	محرسه مر			Math	s Curriculum Map – Grade 3		
Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Lea
					 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, including in the context of money. 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 3Ps3 Explore and solve number problems and puzzles, e.g. logic problems. 		
	1	1	ADDITION		STRACTION 1 UNIT 5 ASSESSMENT – 3 RD	OCTOBER	
				MULTI	PLICATION AND DIVISION 1 – UNIT 8		
T1. 6/10 – 17/10	2	8	 Unit 8: Multiplication and Division 1 Revise multiplication and division facts for the two, three, five and ten times tables and consolidate understanding of the facts for the four times tables. Learn that doubling a number twice is the same as multiplying it by 4. Identify multiples of 2, 5 and 10 and their characteristics. Explore relationships e.g. halving is the inverse of doubling – half of a number doubled is the same as the original number that was halved. 	Calculation – Mental Strategies Multiplication/ Division Problem Solving	 3Nc3 Know multiplication/division facts for 2×, 3×, 5×, and 10× tables. 3Nc4 Begin to know 4× table. 3Nc5 Recognise two- and three-digit multiples of 2, 5 and 10. 3Nc19 Understand the relationship between halving and doubling. 3Nc20 Understand the effect of multiplying two-digit numbers by 10. 3Nc25 Understand and apply the idea that multiplication is commutative. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt3 Make sense of and solve word problems, single (all four operations) [and two-step (addition and subtraction)], and begin to represent them, e.g. with drawings or on a number line. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, including in the context of money. 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 3Ps3 Explore and solve number problems and puzzles, e.g. logic problems. 	0 - 100 number cards Counters Interlocking cubes Marbles	
	I	L	MULTIPLICA	TION AN	D DIVISION 1 UNIT 8 ASSESSMENT – 10 ^{TI}	Н ОСТОВЕ	R
					2D SHAPE – UNIT 11		
T1 20/10 – 24/10	1	4	Unit 11: 2D Shapes To focus on regular and irregular 2D shapes. Explore the properties of shapes such as pentagons and hexagons.	Geometry – Shapes and Geometric Reasoning Problem Solving	 3Gs1 Identify, describe and draw regular and irregular 2D shapes including pentagons, hexagons, octagons and semi-circles. 3Gs2 Classify 2D shapes according to the number of sides, vertices and right angles. 3Gs5 Draw and complete 2D shapes with refl ective symmetry and draw reflections of shapes (mirror line along one side). 3Gs6 Relate 2D shapes [and 3D solids] to drawings of them. 3Gs7 Identify 2D [and 3D] shapes, lines of symmetry and right angles in the 	2D shapes to include regular and irregular: rectangles, squares, hexagons etc	
			Identify 2D shapes in pictures and patterns.		environment. 3Gs8 Identify right angles in 2D shapes.	Coloured pencils	



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-Learning	Comments
	Learners need to memorise multiplication and division facts well enough to recall them instantly. Learners often find it difficult to identify the operation needed to solve word problems, start by giving word problems without asking learners to solve them. Simply ask them to identify whether each question can be solved by +, -, ÷ or × (or a combination).

The name of a shape is given according to the number of sides and vertices it has. It is important To emphasise that a pentagon is any shape with five sides and vertices.

When looking at regular shapes, learners may only recognise them in one orientation, so it is

الجامعة الخاصة Sarh Al Jaameah F	PS محرسه محرسه Private School			Maths	s Curriculum Map – Grade 3			Cambridge Assessment
Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Learning	Comments
					 3Pt8 Recognise the relationships between different 2D shapes. 3Ps7 Identify simple relationships between shapes, e.g. these shapes all have the same number of lines of symmetry. 3Ps9 Explain methods and reasoning orally, including initial thoughts about possible answers to a problem. 			important that they see the same shape in different positions e.g. diamond is still a square
			2	D SHAPE	E UNIT 11 ASSESSMENT – 17 TH OCTOBER			
					3D SHAPE - UNIT 12			
T1 27/10 – 31/10	1	4	Unit 12: 3D Shapes To understand that 3D shapes can initially be classified into those that have curved surfaces, such as spheres, and those that have flat surfaces, such as cubes. Begin to know the correct terminology and classify the shapes.	Geometry – Shapes and Geometric Reasoning Problem Solving	 3Gs3 Identify, describe and make 3D shapes including pyramids and prisms; investigate which nets will make a cube. 3Gs4 Classify 3D shapes according to the number and shape of faces, number of vertices and edges. 3Gs6 Relate [2D shapes and] 3D solids to drawings of them. 3Gs7 Identify [2D and] 3D shapes, [lines of symmetry and right angles] in the environment. 3Pt9 Identify the differences and similarities between different 3D shapes. 3Ps7 Identify simple relationships between shapes, [e.g. these shapes all have the same number of lines of symmetry.] 3Ps8 Investigate a simple general statement by finding examples which do or do not satisfy it, [e.g. when adding 10 to a number, the first digit remains the same.] 3Ps9 Explain methods and reasoning orally, including initial thoughts about possible answers to a problem. 	3D shapes: sphere, cone, cylinder, cube, cuboid, pyramid: square-based and triangular- based if available (per pair)		Some learners may confuse names of 2D shapes with names of 3D shapes and name the 3D shape by the shape of its face. Give learners opportunities to examine and unfold packages such as tubes and prism-shaped confectionary packets. This will help them when they carry out work related to nets.
		L		SD SHAPI	E UNIT 12 ASSESSMENT – 31 st OCTOBER	<u> </u>		
					LENGTH – UNIT 15			
T1 3/11 – 7/11	1	4	Unit 15: Length Begin to explore the appropriate equipment and units to use when estimating, and then measuring and recording, different lengths. This will include when to use a ruler, metre stick and trundle wheel and also whether to	Measure – Length, mass and capacity Problem	 3MI1 Choose and use appropriate units and equipment to estimate, measure and record measurements. 3MI2 Know the relationship between kilometres and metres, metres and centimetres, [kilograms and grams, litres and millilitres.] 3MI4 Use a ruler to draw and measure lines to the nearest centimetre. 3MI5 Solve word problems involving measures. 3Pt1 Choose appropriate mental strategies to carry out calculations. 2Pt3 Regis to understand evendow systems of measurement in length. 			Learners may forget equivalences between units, for example, how many metres make one Kilometre For accurate measurement, they must place the start of the item being measured boside the zero
			use centimetres, metres or kilometres.	Solving	 3Pt2 Begin to understand everyday systems of measurement in length, [weight, capacity and time] and use these to make measurements as appropriate. 3Pt10 Estimate and approximate when calculating, and check working. 			beside the zero. Some learners still may have problems with



تجامعة الخاصة Sarh Al Jaameah	محرسه محر Private School			Math	s Curriculum Map – Grade 3		5	Cambridge Assessment
Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Learning	Comments
			Focus on developing an understanding of the relationship between the units of centimetres, metres and kilometres. Solving word problems with length in real-life contexts.		 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, [including in the context of money.] 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 			conservation of length. If you give them, for example, a straight length of string to measure and then give them that same piece of string in a ball, they may measure it twice, thinking that the appearance of the ball means the length has changed. Learners need to understand that the string will be the same length, no matter how it looks.
				LENGTH	UNIT 15 ASSESSMENT – 7 TH NOVEMBER			
					MASS – UNIT 16			
T1 10/11 - 14/11	1	4	Unit 16: Mass Begin to explore the appropriate equipment and units to use when estimating and then measuring and recording different masses. This includes whether to use grams, or kilograms. Use various strategies to find equivalences between them. Weigh real items in order to learn how to read intervals on a scale. Solve word problems involving mass in real-life contexts.	Measure – Length, mass and capacity Problem Solving	 3Ml1 Choose and use appropriate units and equipment to estimate, measure and record measurements. 3Ml2 Know the relationship between [kilometres and metres, metres and centimetres], kilograms and grams, [litres and millilitres.] 3Ml3 Read to the nearest division or half division, use scales that are numbered or partially numbered. 3Ml5 Solve word problems involving measures. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt2 Begin to understand everyday systems of measurement in [length], weight, [capacity and time] and use these to make measurements as appropriate. 3Pt10 Estimate and approximate when calculating, and check working. 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, [including in the context of money.] 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 			As with length, some learners may forget equivalences between units, for example, how many grams make one kilogram. Learners often think weight is how heavy something is. Mass is a measurement of how much matter is in an object, weight is a measurement of how hard gravity is pulling on that object. You could explain using the example of a person in space. Learners need to understand that the same piece of material will be the same mass, no matter how it looks.









رح الجــامعــة الخــاصــا arh Al Jaameah Priv	ate School	No. of		Chandand		Decourres	F Learning	
	No. Week	No. of	Unit Title	Standard	Learning Objective	Resources	E-Learning	Comments
tes	(s) to	lessons	Essential skills	and Sub-		for the Unit		
_	complete	_		Standard				
2	2	8	Unit 2: Whole Numbers 2	Number -	3Nn3 Count on and back in ones, tens and hundreds from two- and three-digit	100 Square		When expressing a three-digit
L/20			Develop understanding of numbers to	Numbers and the Number	numbers. 3Nn4 Count on and back in steps of 2, 3, 4 and 5 to at least 50.	Number cards		number, some learners will jus name the digit, for example, th
_ 1/20			1000.	System	3Nn5 Understand what each digit represents in three-digit numbers and	0–1000		value of the middle digit in 523
1/20			1000.	System	partition into hundreds, tens and units.	0 1000		2.
			Build on knowledge of place value.		3Nn6 Find 1, 10, 100 more/less than two- and three-digit numbers.	Countable		
					3Nn7 Multiply two-digit numbers by 10 and understand the effect.	objects.		Learners may find the meanin
			Understand the value of three separate		3Nn8 Round two-digit numbers to the nearest 10 and round three-digit			the > and < symbols difficult to
			digits, compare and order numbers.		numbers to the nearest 100.	Interlocking		remember.
					3Nn9 Place a three-digit number on a number line marked off in multiples of	cubes		
			Round numbers and estimate amounts.					Estimation can be problemation
					3Nn10 Place a three-digit number on a number line marked off in multiples of 10.	1–6 spinner		learners like to guess correctly
					3Nn11 Compare three-digit numbers, use < and > signs, and find a number in	Base 10		
					between.	equipment		
					3Nn12 Order two- and three-digit numbers.			
					3Nn13 Give a sensible estimate of a number as a range (e.g. 30 to 50) by	Place value		
					grouping in tens.	arrow cards		
				Problem	3Ps3 Explore and solve number problems and puzzles, e.g. logic problems.			
				Solving	3Ps5 Describe and continue patterns which count on or back in steps of 2, 3, 4,			
					5, 10, or 100.			
					3Ps6 Identify simple relationships between numbers, e.g. each number is			
					three more than the number before it.			
					3Ps8 Investigate a simple general statement by finding examples which do or do not satisfy it [, e.g. when adding 10 to a number, the first digit remains the			
					same].			
					3Ps9 Explain methods and reasoning orally, including initial thoughts about			
					possible answers to a problem.			
			WHO		BERS 2 UNIT 2 ASSESSMENT – 16th JANU	ARY		
				ADDI	TION AND SUBTRACTION 2 – UNIT 6			
T2	2	8	Unit 6: Addition and Subtraction 2	Calculation –	3Nc2 Know the following addition and subtraction facts:	0 - 100		Remind learners that the word
/1/20	2	0		Mental	– multiples of 100 with a total of 1000	number cards		sum should only be used in the
_			Explore patterns and processes when	Strategies	– multiples of 5 with a total of 100.	number curus		context of addition.
1/20			adding and subtracting numbers.	Addition/	3Nc14 Add and subtract pairs of two-digit numbers.	Counters		
, _•				Subtraction	3Nc15 Add three-digit and two-digit numbers using notes to support.			Visualise the effect of a
			Continue to use the = sign when		3Nc17 Add/subtract single-digit numbers to/from three-digit numbers.	Interlocking		calculation crossing a tens or
			reading and writing calculations.		3Nc18 Find 20, 30, 90, 100, 200, 300 more/less than three-digit numbers.	cubes		hundreds boundary by moving
								forwards and backwards along
			Present all calculations horizontally,	Problem	3Pt1 Choose appropriate mental strategies to carry out calculations.	Place value		number lines.
			and identify as many patterns between	Solving	3Pt3 Make sense of and solve word problems, single (all four operations) and	arrow cards		
			numbers as possible.		two-step (addition and subtraction), and begin to			Some learners may overly-rely
					represent them, e.g. with drawings or on a number line.			pencil and paper methods;
			Continue to partition numbers in order		3Pt4 Check the results of adding two numbers using subtraction, and several numbers by adding in a different order			encourage them to match the
			to simplify questions.		numbers by adding in a different order. 3Pt10 Estimate and approximate when calculating, and check working.			method to the calculation.
					SPLID Estimate and approximate when calculating, and check working.	1		



قصاغالغا Sarh Al Jaameah	DS مدرسه میر Private School			1	s Curriculum Map – Grade 3		
Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-
					 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Ps1 Make up a number story to go with a calculation, including in the context of money. 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 3Ps3 Explore and solve number problems and puzzles, e.g. logic problems. 3Ps8 Investigate a simple general statement by finding examples which do or do not satisfy it, e.g. when adding 10 to a number, the first digit remains the same. 3Ps9 Explain methods and reasoning orally, including initial thoughts about nossible answers to a problem 		
		I			possible answers to a problem. BTRACTION 2 UNIT ASSESSMENT – 30 TH J		
			ADDITION	AND SU	DIRACTION 2 UNIT ASSESSIVIENT - 50 ^m J	ANUART	
				MULT	PLICATION AND DIVISION 2 – UNIT 9		
T2 2/2/20 - 13/2/20	2	8	 Unit 9: Multiplication and Division Revise multiplication and division facts for the 2×, 3×, 4×, 5× and 10× tables and introduce to facts for the 6× and 9× tables. Revise working out the doubles of numbers from 1 to 20 and deriving their related halves. Learn to double multiples of 5 to 100, partitioning each number if necessary, doubling the tens and the units and then adding to find the total. Revisit the relationship between multiplication and division, understanding that one is the inverse of the other. 	Number – Calculation: Mental strategies Multiplication and division Problem Solving	 3Nc3 Know multiplication/division facts for 2×, 3×, 5×, and 10× tables. 3Nc4 Begin to know 4× table. 3Nc6 Work out quickly the doubles of numbers 1 to 20 and derive the related halves. 3Nc7 Work out quickly the doubles of multiples of 5 (< 100) and derive the related halves. 3Nc19 Understand the relationship between halving and doubling. 3Nc21 Multiply single-digit numbers and divide two-digit numbers by 2, 3, 4, 5, 6, 9 and 10. 3Nc24 Understand that division can leave a remainder (initially as 'some left over'). 3Nc26 Understand the relationship between multiplication and division and write connected facts. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt3 Make sense of and solve word problems, single (all four operations) [and two-step (addition and subtraction)], and begin to represent them, e.g. with drawings or on a number line. 3Pt6 Check multiplication by reversing the order, e.g. checking that 6 × 4 = 24 by doing 4 × 6. 3Pt7 Check a division using multiplication, e.g. check 12 ÷ 4 = 3 by doing 4 × 3. 3Pt10 Estimate and approximate when calculating, and check working. 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, including in the context of money. 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 		



Cambridge Assessment

-Learning	Comments
	Give learners plenty of practice to learn the majority of the multiplication and division facts. Give time for learners who find memorising difficult to visual representations of multiplications as arrays and groups of objects. Encourage pattern-spotting, using 100 squares and the multiples themselves.

مالغالمهما با	محرسة محربه Private School			Math	s Curriculum Map – Grade 3		
Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Le
					 3Ps8 Investigate a simple general statement by finding examples which do or do not satisfy it [, e.g. when adding 10 to a number, the first digit remains the same]. 3Ps9 Explain methods and reasoning orally, including initial thoughts about possible answers to a problem. 		
		1	MULTIPLICA	TION AN	D DIVISION 2 UNIT 9 ASSESSMENT – 13 TH	FEBRUA	RY
					MONEY – UNIT 14		
T2 16/2/20 – 20/2/20	1	4	 Unit 14: Money Learners will explore the notation of money in terms of dollars and cents. This notation links well to the introduction of decimals, for example, one dollar 25 cents can be written as \$1.25. Find totals and change. Opportunities to handle real money. Link to real-life situations and problem solving 	Measure – Money Problem Solving	 3Mm1 Consolidate using money notation. 3Mm2 Use addition and subtraction facts with a total of 100 to find change. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt3 Make sense of and solve word problems, single (all four operations) and two-step (addition and subtraction), and begin to represent them, e.g. with drawings or on a number line. 3Pt10 Estimate and approximate when calculating, and check working. 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, including in the context of money. 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 		
					CAPACITY – UNIT 17		
T2 23/2/20 - 27/2/20	1	4	Unit 17: Capacity Begin to explore the appropriate equipment and units to use when estimating and then measuring and recording different capacities and volumes. This should include whether to use millilitres or litres. Measure capacities and volumes in practical experiments to learn how to read intervals on a scale. Solve word problems involving capacity and volume in real-life contexts.	Measure – Length, mass and capacity Problem Solving	 3Ml1 Choose and use appropriate units and equipment to estimate, measure and record measurements. 3Ml2 Know the relationship between [kilometres and metres, metres and centimetres, kilograms and grams,] litres and millilitres. 3Ml3 Read to the nearest division or half division, use scales that are numbered or partially numbered. 3Ml5 Solve word problems involving measures. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt2 Begin to understand everyday systems of measurement in [length, weight,] capacity [and time] and use these to make measurements as appropriate. 3Pt10 Estimate and approximate when calculating, and check working. 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Pt12 Consider whether an answer is reasonable. 		



Cambridge Assessment

Comments
Learners often confuse coins and their values. Some may think the smallest coin must have the least value and the largest the greatest value, instead of examining each coin to find its worth in cents. Another area that might confuse is the written decimal format for dollars and cents. If a decimal ends with a zero, it is common to delete that zero. In money it needs to stay, so that the actual number of cents are shown.
As with length and mass, some learners may forget equivalences between units, for example, how many millilitres are equivalent to one litre. Give learners the opportunity to look at bottles filled to different levels and inform them that the amount the bottle will hold is the capacity. Some learners may have difficulty estimating capacity and volume. It is important to give them something to compare with the capacity or volume they are

Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Le
					 3Ps1 Make up a number story to go with a calculation, [including in the context of money.] 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 		
			C	APACITY	UNIT 17 ASSESSMENT – 27 TH FEBRUARY		
					HANDLING DATA – UNIT 19		
T2 1/3/20 - 12/3/20	2	8	Unit 19: Handling Data Revise that data can be presented in a variety of ways from, for example, simple lists; drawings and tables; charts; pictograms; block and bar graphs; pie charts and line graphs. Learn new methods for example, bar charts and pictograms with symbols representing two units. Solve problems that involve: • collecting and selecting relevant data • representing the information • analysing and drawing conclusions • solving the problem	Handling data – Organising, categorising and representing data Problem Solving	 3Dh1 Answer a real-life question by collecting, organising and interpreting data, e.g. investigating the population of mini-beasts in different environments. 3Dh2 Use tally charts, frequency tables, pictograms (symbol representing one or two units) and bar charts (intervals labelled in ones or twos). 3Dh3 Use Venn or Carroll diagrams to sort data and objects using two criteria. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt12 Consider whether an answer is reasonable. 3Ps4 Use ordered lists and tables to help to solve problems systematically. 3Ps6 Identify simple relationships between numbers, e.g. each number is three more than the number before it. 3Ps9 Explain methods and reasoning orally, including initial thoughts about possible answers to a problem. 		

					TERM 3					
	WHOLE NUMBERS 3 – UNIT 3									
T3 12/4/20 _ 16/4/20	1	4	Unit 3: Whole Numbers 3 Reinforces understanding of numbers to 1000. Explore the links between estimation and rounding. Explore the idea that numbers can be	Number - Numbers and the Number System Problem Solving	 3Nn7 Multiply two-digit numbers by 10 and understand the effect. 3Nn8 Round two-digit numbers to the nearest 10 and round three-digit numbers to the nearest 100. 3Nn11 Compare three-digit numbers, use < and > signs, and find a number in between. 3Nn12 Order two- and three-digit numbers. 3Nn13 Give a sensible estimate of a number as a range (e.g. 30 to 50) by grouping in tens. 					
			made simpler to deal with by both estimating and rounding them to the nearest 10 or 100.	Solving	3Ps3 Explore and solve number problems and puzzles, e.g. logic problems. 3Ps6 Identify simple relationships between numbers [, e.g. each number is three more than the number before it].					



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Learning	Comments
	Some learners may find it difficult to read axes on graphs that ascend in intervals greater than one.

When drawing conclusions from graphs, some learners may make very simple statements, for example, Three learners like cakes. They need to be encouraged to think more deeply and draw more complex conclusions, for example, Five more learners like biscuits than cakes, so Jim should buy biscuits for the party.

Adding a zero on the end of a two-digit number is the obvious way to multiply by 10 and it is understandable that learners will automatically spot this pattern. However, it is important never to use this as a description as it will be misleading when learners are multiplying decimal numbers by 10 in later stages

Revisit the > and < symbols which are often confused.

جامعة الأحاصة Sarh Al Jaameah P) 			Math	s Curriculum Map – Grade 3			Cambridge Assessment International Education
Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Learning	Comments
			Continue to practise multiplication of two-digit numbers by 10. Revisit comparing and ordering numbers.		 3Ps8 Investigate a simple general statement by finding examples which do or do not satisfy it [, e.g. when adding 10 to a number, the first digit remains the same]. 3Ps9 Explain methods and reasoning orally, including initial thoughts about possible answers to a problem 			Reinforce the concept of estimation by way of estimating given points on a number line.
			WF		MBERS 3 UNIT 3 ASSESSMENT – 16 TH APF	RIL		
					FRACTIONS - UNIT 4			
T3 19/4/20 _ 30/4/20	2	8	 Unit 4: Fractions Build on existing knowledge of simple fractions. Find halves of larger numbers (from 10 to 40) and explore halves of odd numbers. Begin to demonstrate links between the numerator and denominator when finding halves of fractions. Introduce mixed fractions, also called mixed numbers. Begin to relate finding fractions to division, identifying division calculations that can be used to find a particular fraction. 	Number – Numbers and the number system Problem Solving	 3Nn14 Find half of odd and even numbers to 40, using notation such as 1/3, 1/2. 3Nn15 Understand and use fraction notation recognising that fractions are several parts of one whole, e.g. ¾ is three-quarters and 2/3 is two-thirds. 3Nn16 Recognise equivalence between 1/2, 2/4, 4/8 and 5/10 using diagrams. 3Nn17 Recognise simple mixed fractions, e.g. 1 ½ and 2 1/4 3Nn18 Order simple or mixed fractions on a number line, e.g. using the knowledge that ½ comes half way between 1/4 and 3/4, and that 1 1/2 comes half way between 1 and 2. 3Nn19 Begin to relate finding fractions to division. 3Nn20 Find halves, thirds, quarters and tenths of shapes and numbers (whole number answers). 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, including in the context of money. 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 3Ps3 Explore and solve number problems and puzzles, e.g. logic problems. 3Ps8 Investigate a simple general statement by finding examples which do or do not satisfy it, e.g. when adding 10 to a number, the first digit remains the same]. 3Ps9 Explain methods and reasoning orally, including initial thoughts about possible answers to a problem. 			Learners may have difficulty understanding of the roles of numerator and denominator. They are simply to understand th roles of the 'top' and 'bottom' numbers in a fraction. Encourage them to use the term quarters. To help them remember the term, remind learners of terms such as quadrilateral, quad bike and quadruplets where 'quad-' signifies four
					CTIONS UNIT 4 ASSESSMENT – 30 TH TION AND SUBTRACTION 3 – UNIT 7			
T3 3/5/20 _ 14/6/20	2	8	Unit 7: Addition and Subtraction 3 Explore pairs of multiples of 5 and 100 that total 100 and 1000 respectively. Solve calculations including:	Calculation – Mental Strategies Addition/ Subtraction	 3Nc2 Know the following addition and subtraction facts: multiples of 100 with a total of 1000 multiples of 5 with a total of 100. 3Nc13 Find complements to 100, solving number equations such as 78 +? = 100. 3Nc14 Add and subtract pairs of two-digit numbers. 	0 - 100 number cards Counters Interlocking		Learners will not have had as much practice in counting in threes and fours as they have in counting in twos, fives and tens. These skills could be challenging for them.
			TU + TU, HTU + TU, HTU + U, HTU + T and HTU + H.		3Nc15 Add three-digit and two-digit numbers using notes to support. 3Nc17 Add/subtract single-digit numbers to/from three-digit numbers.	cubes		Give learners plenty





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Term - Dates	No. Week (s) to complete	No. of lessons	Unit Title Essential skills	Standard and Sub- Standard	Learning Objective	Resources for the Unit	E-Learning	Comments
			Find complements to 100. In particular how to solve number equations with unknown numbers in different places. Continue to use mental strategies such as partitioning.	Problem Solving	 3Nc18 Find 20, 30, 90, 100, 200, 300 more/less than three-digit numbers. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt3 Make sense of and solve word problems, single (all four operations) and two-step (addition and subtraction), and begin to represent them, e.g. with drawings or on a number line. 3Pt4 Check the results of adding two numbers using subtraction, and several numbers by adding in a different order. 3Pt5 Check subtraction by adding the answer to the smaller number in the original calculation. 3Pt10 Estimate and approximate when calculating, and check working. 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, including in the context of money. 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 3Ps3 Explore and solve number problems and puzzles, e.g. logic problems. 3Ps8 Investigate a simple general statement by finding examples which do or do not satisfy it, e.g. when adding 10 to a number, the first digit remains the same. 3Ps9 Explain methods and reasoning orally, including initial thoughts about possible answers to a problem. 	Place value arrow cards		of opportunities to choose the correct operation needed to solve unknowns:14 +? = 20 (subtraction) 20 -? = 12 (subtraction) 14 + 6 =? (addition) 20 - 8 =? (subtraction)Encourage learners not to rely overly on pencil-and paper methods. Teach them to choose methods to match the calculation in hand. Knowing when to use pencil-and-paper methods and when to work out an answer mentally is a skill that learners need practice in developing.
			ADDITIO	N AND S	UBTRACTION 3 UNIT 7 ASSESSMENT – 14	4 th MAY		
				MUL	TIPLICATION AND DIVISION UNIT 10			
T3 17/5/20 – 29/5/20	2	8	 Unit 10: Multiplication and Division Revise multiplication and division facts for the 2×, 3×, 4×, 5× and 10× tables. As well as memorising the facts, to multiply single-digit numbers by 2, 3, 4, 5, 6, 9 and 10. Begin to multiply teens numbers by both 3 and 5, by partitioning the number into tens and units and adding the totals. Move beyond 10 × 10 when dividing two-digit numbers by 2 3, 4, 5, 6, 9 and 10, 	Number – Calculation: Mental strategies, Multiplication and division	 3Nc3 Know multiplication/division facts for 2×, 3×, 5×, and 10× tables. 3Nc4 Begin to know 4× table. 3Nc6 Work out quickly the doubles of numbers 1 to 20 and derive the related halves. 3Nc7 Work out quickly the doubles of multiples of 5 (< 100) and derive the related halves. 3Nc8 Work out quickly the doubles of multiples of 50 to 500. 3Nc21 Multiply single-digit numbers and divide two-digit numbers by 2, 3, 4, 5, 6, 9 and 10. 3Nc22 Multiply teens numbers by 3 and 5. 3Nc23 Begin to divide two-digit numbers just beyond 10× tables, e.g. 60 ÷ 5, 33 ÷ 3. 3Nc24 Understand that division can leave a remainder (initially as 'some left over'). 3Nc26 Understand the relationship between multiplication and division and write connected facts. 			Some learners may find the progression beyond the set of 10 × 10 multiplication and division facts difficult. Encourage learners to use known facts to help. For example, 16 × 4 is simply 10 × 4 plus 6 × 4. Model such calculations, using Base 10 equipment to help partition teens number.
			3, 4, 5, 6, 9 and 10,	Problem Solving	write connected facts.3Pt1 Choose appropriate mental strategies to carry out calculations.			

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erm -	No. Week	No. of	Unit Title	Standard	Learning Objective	Resources	E-Learning	Comments
ates	(s) to	lessons	Essential skills	and Sub-		for the Unit		
	complete			Standard				
			Revisit doubling numbers to 20 and		3Pt3 Make sense of and solve word problems, single (all four operations) [and			
			multiples of 5 to 100 (and also halving the answers).		two-step (addition and subtraction)], and begin to represent them, e.g. with drawings or on a number line.			
			the answers).		3Pt6 Check multiplication by reversing the order, e.g. checking that $6 \times 4 = 24$			
					by doing 4×6 .			
					3Pt7 Check a division using multiplication, e.g. check $12 \div 4 = 3$ by doing 4×3 .			
					3Pt10 Estimate and approximate when calculating, and check working.			
					3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using			
					rounding. 3Pt12 Consider whether an answer is reasonable.			
					3Ps1 Make up a number story to go with a calculation, including in the context			
					of money.			
					3Ps2 Explain a choice of calculation strategy and show how the answer was			
					worked out.			
					3Ps3 Explore and solve number problems and puzzles, e.g. logic problems.3Ps8 Investigate a simple general statement by finding examples which do or			
					do not satisfy it [, e.g. when adding 10 to a number, the first digit remains the			
					same].			
					3Ps9 Explain methods and reasoning orally, including initial thoughts about			
					possible answers to a problem.			
				POS	SITION AND MOVEMENT- UNIT 14			
3	2	8	Unit 14: Position and Movement	Geometry –	3Gp1 Use the language of position, direction and movement, including			Learners may confuse clockwise
1/5/20			Fundamenta en esta en esta el alcunica	Position and	clockwise and anti-clockwise.			and anticlockwise.
1/6/20			Explore the movements of clockwise and anticlockwise and right and left	movement	3Gp2 Find and describe the position of a square on a grid of squares where the rows and columns are labelled.			Some learners may continually
1/0/20			turns, and physically		3Gp3 Use a set square to draw right angles.			forget in which order to read ar
			link these turns to angles.		3Gp4 Compare angles with a right angle and recognise that a straight line is			plot co-ordinates. You could ask
					equivalent to two right angles.			the learners to move their right
				Duchlass				hands to the right and their left
				Problem Solving	3Ps7 Identify simple relationships [between shapes, e.g. these shapes all have the same number of lines of symmetry.]			hand upwards. This action may help them to remember
					3Ps8 Investigate a simple general statement by finding examples which do or			horizontal axis first and then
					do not satisfy it, [e.g. when adding 10 to a number, the first digit remains the			vertical.
					same.]			
					3Ps9 Explain methods and reasoning orally, including initial thoughts about			
					possible answers to a problem			
			POSITIO	UN AND	MOVEMENT UNIT 14 ASSESSMENT – 4^{TH}	JUNE		
					TIME 2 – UNIT 18			





erm - No. Week	No. of	Unit Title	Standard	Learning Objective	Resources	E-Learning	Comments
Dates (s) to I	lessons	Essential skills	and Sub-		for the Unit		
complete			Standard				
3 1 4 4/6 - 8/6 4		 Unit 18: Time To learn to tell the time to five minutes on an analogue clock and to the nearest minute on a digital clock. Use the abbreviations 'a.m.' and 'p.m.' to indicate the time of the day, whether it is morning or afternoon and evening. Focus on units of time, such as seconds and minutes. Solve problems that include finding durations of, and differences between, times. Explore calendars and calculating time intervals in weeks and days. 	Measurement - Time Problem Solving	 3Mt1 Suggest and use suitable units to measure time and know the relationships between them (second, minute, hour, day, week, month, year). 3Mt2 Read the time on analogue and digital clocks, to the nearest 5 minutes on an analogue clock and to the nearest minute on a digital clock. 3Mt3 Begin to calculate simple time intervals in hours and minutes. 3Mt4 Read a calendar and calculate time intervals in weeks or days. 3Pt1 Choose appropriate mental strategies to carry out calculations. 3Pt2 Begin to understand everyday systems of measurement in [length, weight, capacity and] time and use these to make measurements as appropriate. 3Pt10 Estimate and approximate when calculating, and check working. 3Pt11 Make a sensible estimate for the answer to a calculation, e.g. using rounding. 3Pt12 Consider whether an answer is reasonable. 3Ps1 Make up a number story to go with a calculation, [including in the context of money.] 3Ps2 Explain a choice of calculation strategy and show how the answer was worked out. 			Some learners may struggle to te the time when it involves finding 'to' times and converting these from analogue to digital times an vice-versa. Finding time durations and differences can be a problem for some learners, who may think that they can simply add for durations or subtract for difference. Time is a measurement that does not use metric units.

