	то	RVIEW	Long Term Ma KEY STAGE			TOR VIEW
				W 1.0		
Autumn	1	Week 1 Week 2 NUMBER Place Value	Week 3	Week 4	Week 5 NUMBER Addition	Week 6
Aut	2	NUMBER Subtraction	MEASUREMENT Money		NUMBER Multiplication	
Spring	1	NUMBER Division	STATISTICS	GEOMETRY Properties of Shapes		
Spi	2	NUMBER Fractions	DR V	ΊΕΝ	MEASUREMENT Length & Height	
Summer	1	GEOMETRY Position & Direction	PROBLEM SOLVING MEASUREM Efficient methods Time			
Sum	2	MEASUREMENT <i>Time</i>			REMENT / & Temperature	

			I	AUTUMN 1 MEDIUM-TERM	PLANNING						
Aspi	iration for L	ife Differentiated, aspirational targets	s dependent on pupil needs.			arning for Life Opportunities to dev	velop cross curricular skills e.g. drama				
	L SC			NUM	BER	1					
	a withii ectior	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6				
	s with dently conn		Place Value			Addition					
	students ndepeno id make	Counting objects to 100.	Represent numbers to 100.	Tens and Ones	Place Value Charts	Adding 1s	10 <b>More</b>				
	tuips ning i nd an		OF	RAL/MENTAL STARTERS (Topic	c from the previous week is repeate	ed <sup>1</sup> )					
he wider world. Mathematics equ	udents a fundamental understanding of how Mathematics links to the wider world. Mathematics equips students with a and change the world in which they live. Learning basic principles of maths is essential to functioning independently within numbers, from getting the right bus, counting money in a shop to employment. Students understand and make connections skills to solve problems in a range of contexts.	Number songs or BBC Supermovers for counting. Topmarks counting games. How can we count these numbers? What is one more/one less? What is one more/one less? What is the largest number? Which numbers sound similar? How can we check that they are different?	Number songs or BBC Supermovers for counting. <i>Topmarks</i> counting games. How can we count these numbers? What is one more/one less? What is the largest number? Which numbers sound similar? How can we check that they are different?	Numbers songs of BBC Supermovers for counting. How have these beads been grouped? How does it help you count? Can you show me the tens/ones in the number? Which resource is the quickest for counting numbers? Which would take a long time.	How can we show 2-digit number as tens and ones? How can we show which number is larger than the other? Which image does not show this number? Can you finish this model, using what we already know?	How many tens are in this number? How many ones are there? Can you create some number sentences using the place value chart? Which place value chart shows more? Adding song BBC Supermovers for Number Bonds (End of starter)	Adding song or BBC Supermovers for Number Bonds. True or False? Totals. How can we work out this number problem? How can we read this number problem?				
	atics asic p in a										
AUTUMN 1	ng of how Mathe y live. Learning is, counting mon e of contexts.	Back, backwards, compare, forward, more, less, count, smallest, largest, numeral	Represent, total, match, numeral, count, largest, larger, smaller, smallest, tens, ones.	Partition, concrete, models, part- whole models, ten frame, digit.	Tens, ones, place value, number, digit, same, different, equal	Add, adding, more, total, addition, number, pattern, bigger	Add, adding, 10 more, total, addition, number, pattern, bigger				
S P	tandi th the ht bu rang										
MATHEMATICS	amental unders le world in whic n getting the rig problems in a	Counters / Bricks   Number lines Play-Doh   Objects e.g. Toy Cards   Photographs   Digital images	Counters/ Bricks Bead strings Straws   Base 10 Digit cards	Ten frames Counters / Bricks Numicon Base 10	Ten frames Counters/Bricks Numicon   Bead Strings Number Cards	Bead strings Counters/Cubes Numicon Cartoons/Pictures	10 frames Counters/bricks/cubes 100 squares   Number tracks 100 Splat Square (IWB Resource)				
E	funda nge th s, fron solve		-	CT: SUGGESTED FUNCTIONA	L / PROBLEM SOLVING ACTIV	/ITIES					
KS3 w School, we aim to instil in our st	At Tor View School, we aim to instill in our students a uniquely powerful set of tools to understand and cha the world. In everyday life we are faced with number in different areas of maths so they can apply skills to	How many are there in total? What numbers are represented? Write in numerals and words. Match the numerals to the word. Can you find the missing number?	Using various concrete resources to represent amounts. Matching numbers to correct visual representations. Representing numbers in different ways. Finding tens and ones in number using bead strings, base 10 and straws. Representing numbers and placing them on a number line. Creating two-digit numbers with digit cards – show largest and smallest you can make.	Which part do we know? How can we use the whole part to work out the missing part? Can you use concrete resources/draw something to help you partition? How can you rearrange the counters to help you count the objects? Partitioning numbers in different ways – not just 58 as 5 tens and 8 ones, can also be 4 tens and 18 ones etc. Investigate and explore mistakes e.g. Tom thinks that 10 + 2 = 102. How is this wrong? Can you show this using concrete resources?	Representing numbers in a place value chart – use base ten, counters, number cards etc. Build number sentences for represented numbers. Compare place value charts – equal and different amounts. Drawing number cards from pile, representing them with objects.	Using concrete objects to represent number problems. Counting on from first number with objects. Complete number sentences to illustrate changes in an image e.g. There are four people playing on the park, one more joins. What will it look like? How can we show this? Creating addition patterns – start at number and count on with strings. Filling in number tracks. True or false? Investigate number sentences and find out if they have same total. How can we add 2/3 etc?	Use 100 square to explore what happens as numbers become bigger by 10. Complete number tracks (start with 10, 20) Circle numbers on 100 square that are 10 more than Use concrete objects to complete number, ten more boxes. Identifying cost of items being increased by 10p. Discussion and questioning – How do we know that 10 more than 21 is 31? Because when you add ten, you aren't adding ones.				

KS2 MATHEMATICS AUTUMN 1

4

	AUTUMN 2 MEDIUM-TERM PLANNING											
Asp	iration for L	ife Differentiated, aspirational target	s dependent on pupil needs.	Languag	ge for Life Explicit teaching/ exposure to new and know vocabulary.			earning for Life.	earning for Life Opportunities to develop cross curricular skills e.g. drama			
		NUM	BER			MEASU	REMENT		NUN	BER		
	stand s,	Week 1	ek 1 Week 2		Week 3 We		Week 4	Week 5 Week 6		Week 6		
	nders ht bu	Subtraction				Мо	ney		Multip	ication		
	tools to u ng the rig	Subtracting 1	10 <b>Less</b>		Recognising Coins		Counting Money (Pence)	Making Ed	qual Groups	Adding Equal Groups (2, 5 and 10)		
	et of getti			ORA	L/MENTAL	STARTERS (Topie	c from the previous week is repea	nted <sup>1</sup> )				
	cs equips students with a uniquely powerful s veryday life we are faced with numbers, from to solve problems in a range of contexts.	Can you find 10 more than? Can you complete this number track? How do we know that x is 10 more than x? Song or BBC Supermovers about taking away.	Can you show me 1 less tha How can we work out 2, 3 less than? How do we know that x is sn than x? Song or BBC Supermove about taking away.	n? 3 naller ers	Can you fir Can we spla are 10 less S How do we less What happ obje Song or BE about coins (	the numbers than? the numbers that than?(IWB Splat quare) know that x is 10 s than x? ens if we take 10 cts away? BC Supermovers at end of starter to luce topic)	Song or BBC Supermovers about coins Which coin is bigger? Can you find all the x-coloured coins? Which coin in the biggest/smallest? What coins can we name?	Which group of highes What coins can (val Are the silver of than the bronz silver coins l val Is the biggest	of coins has the st total? we use to make x lue)? oins worth more ze coins? Do all have the same lue? coin always the aluable?	Which group is equal/unequal? How do we know this? Jack has 5 equal groups; how could we show them? Jack has 4 unequal groups, how could we show them? How many equal groups are shown?		
2	matic . In ev skills					VOCAB	ULARY					
	world. Mathe thin the world ey can apply	Subtract, take away, less, less than, one, pattern, minus, smaller	Subtract, take away, less, 10 ten, minus, pattern, small	less,	1p, 2p, 5p, 10	oounds, value, total, p, 20p, 50p, £1, £2, noney	Coin, pence, pounds, value, total 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, count, money		amount, unequal, same, different	Add, total, equal, groups, how many, altogether		
AU	wider Itly wi so th	IMPLEMENTATION: CONCRETE   PICTORIAL   ABSTRACT REPRESENTATION										
KS2 MATHEMATICS AUTUMN	Mathematics links to the functioning independer different areas of maths	Counters   Cubes Number Cards Interactive images/resources on IWB   Number lines	Counters   Cubes Number Cards   100 Sp Square (IWB)   Interact images/resources on IV 100 Squares   Number I	ive VB		stic, real, cards, nted on IWB.	Coins – plastic, real, cards, represented on IWB.	IWB Interacti	ards ive Resources Counters.	Cards IWB Interactive Resources Cubes, Counters   Ten Frames   Numicon Number Lines		
MA	how I Itial to Ins in	IMPACT: SUGGESTED FUNCTIONAL / PROBLEM SOLVING ACTIVITIES										
KS2 N	iental understanding of h ciples of maths is essent and and make connection	Using concrete objects to represent number problems. Counting back from first number with object/on number line.	Use 100 square to explore the happens as numbers beconsmaller by 10. Complete number track working backwards (Start	what me s,	Nam Recognising ea Organising c	ing coins. and writing value of ch coin. bins – colour, size, shape.	Counting totals of coins of the same value. Counting totals of coins of different value.	Are the gro unequal? Competing sente	ups equal or Labelling. ences - There are of x pencils.	How many wheels/animal legs/apples/fish/flowers in vases etc are there? How many is in each		
	At Tor View School, we aim to instil in our students a fundamental understanding of how Mathematics links to the wider world. Mathematics equips students with a uniquely powerful set of tools to understand and change the world in which they live. Learning basic principles of maths is essential to functioning independently within the world. In everyday life we are faced with numbers, from getting the right bus, counting money in a shop to employment. Students understand and make connections in different areas of maths so they can apply skills to solve problems in a range of contexts.	Complete number sentences to illustrate changes in an image e.g There are four people playing on the park, one leaves. What will it look like? How can we show this? Filling in number tracks. True or false? Investigate number sentences and find out if they have same total. How can we take away 2, 3 etc?	multiples of 10) Circle numbers on 100 squ that are 10 less than. Use concrete objects to complete number. Identifying cost of items be decreased by 10p. Discussion and questionii How do we know that 10 I than 21 is 11? Real world problems – Them 10 pencils in a pack. Our cu has 5 packs. We give awa packs. How many do we have left? How can we show the	ng – e are lass y 3 ave	Using coins to 2p, 5p, 10 Comparing for Comparing v worth more Odd ones of that doesn rep Match cards	make given value – p, 20p, 50p, £1 eatures e.g. Are all ns round values e.g. 'Is 50p as it's bigger than £1?' ut – find amount 't have a coin to resent it. to coins of equal value. ins to images.	Comparing features e.g. Are silve coins always worth more than copper coins?, Is the group with the most coins always the bigges amount? Different ways of counting coins – can you find quickest way? Making different totals with groups of coins (same coin can be used more than once to combine) Comparing totals.	t Compare equal/unequal how you know Jack has 4 e show witi materials/pict Jack has 3 un show me w materials/picture	e equal groups te his drawing. images of groups – explain which are which. qual groups – h concrete tures what they d look. lequal groups – vith concrete s what they could c like.	bag/group? How can we represent each group using physical resources/on IWB? Completing number sentences, filling in blanks – 5+5+5+5 = _ There are _ apples There are _ groups of _ apples which equals How many groups are there altogether?		

				SPRING 1 MEDIUM-TERM	PLANNING						
Asp	oiration for L	ife Differentiated, aspirational target	s dependent on pupil needs.	age for Life Explicit teaching/ expo	sure to new and know vocabulary.	arning for Life Opportunities to dev	velop cross curricular skills e.g. drama				
		NUM	IBER	STATISTICS		GEOMETRY					
	s,	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6				
	nders ht bus	Divi	sion	Statistics		Properties of Shapes					
	ools to u g the rig	Making Equal Groups - Sharing	Making Equal Groups - Grouping	Making Tally Charts and Pictograms	Recognising 2D and 3D Shapes	Counting Sides of 2D shapes.	Drawing 2D shapes.				
	t of to gettin		OF	RAL/MENTAL STARTERS (Topi	ic from the previous week is repeate						
	Mathematics equips students with a uniquely powerful set of tools to understand world. In everyday life we are faced with numbers, from getting the right bus, apply skills to solve problems in a range of contexts.	How many equal groups are there?	Alex has 20 sweets and shares them between 5 friends.	Amir has some counters. He makes 5 equal groups.	Which item is the most popular on the tally chart? How we do know this?	BBC Supermovers or song about shapes.	BBC Supermovers or song about shapes.				
	i a uniquely ed with nun range of œ	What is the total of the equal groups? How can we represent this?	Tommy has 20 sweets and shares them between 10 friends.	The amount he started with is greater than 10 but less than	How can we count the data? What symbols could we use to put this data onto a pictogram?	I'm thinking of a 2D shape with more than 3 sides. What could it be? Are the more than one	Do all four sided shapes look the same? How can we show this?				
	tudents with we are fac oblems in a	Eve and Whitney are making	Whose friends will receive the most sweets? How do you	35. How many counters could he have started with?	What is the same and what is different about these pictograms	that it could be?	Mo makes a rectangle using lolly sticks, how many identical rectangles can he makes from				
	s equips st eryday life o solve pr	equal groups of bread rolls. Eve thinks that they need one more group of 10. Whitney thinks that	know?	How many will be in each group?	(horizontal and vertical)? Which is easier to read? Why? BBC Supermovers or song	Are there any shapes that it couldn't be?	18 sticks?				
1	thematics orld. In ev oly skills t	they need 10 more rolls. Who is correct or are they both correct?	(Differentiate accordingly)	(Differentiate accordingly)	about Shapes (To introduce new topic)	Which shape is the odd one out?	Can you make a rectangle that's different to your friend's?				
Ž	d. Ma he wo in app			VOCAE							
TICS SPRING	s links to the wider world. M g independently within the w eas of maths so they can ar	Sharing, equally, groups, altogether, equal, how many? divided	Sharing, equally, groups, altogether, equal, how many? divided	Data, tally, picture, pictogram, statistic, amount, total, recording	Shapes, 2D Shape, 3D Shape, Square, Circle, Triangle, Rectangle, Heptagon, Hexagon, Pentagon, Octagon, Cube, Pyramid, Cuboid, Cone, Sphere	Shapes, 2D Shape, Sides, Square, Circle, Rectangle, Heptagon, Hexagon, Pentagon, Octagon, Vertices	Shapes, 2D Shape, Sides, Square, Circle, Rectangle, Heptagon, Hexagon, Pentagon, Octagon, Vertices				
MA <sup>-</sup>	s links g inde eas of	IMPLEMENTATION: CONCRETE   PICTORIAL   ABSTRACT REPRESENTATION									
<b>S2 MATHEMATICS</b>	of how Mathematic sential to functionin ctions in different a	Cubes   Counters IWB Interactive Resources Bar Models   Base 10	Cubes   Counters IWB Interactive Resources Bar Models   Base 10 Number lines   Number Cards	Different objects found around class   IWB Interactive Resources Means of collecting data Images to use for Pictograms	2D and 3D shape image cards. IWB Interactive Resources Plastic 2D and 3D Shapes	2D shape image cards. Plastic 2D shapes. IWB Interactive Resources	2D shape image cards. Plastic 2D shapes. IWB Interactive Resources Geo-Boards   Elastic Bands				
X	iding is est onnec	IMPACT: SUGGESTED FUNCTIONAL / PROBLEM SOLVING ACTIVITIES									
¥	At Tor View School, we aim to instil in our students a fundamental understanding of how Mathematics and change the world in which they live. Learning basic principles of maths is essential to functioning counting money in a shop to employment. Students understand and make connections in different are	Share the x cubes equally into two boxes – There are _ cubes altogether There are _ cubes in each box. Can you share the 12 cubes equally 3 boxes? 24 children are put into 4 equal teams. How many children are in each team? Ron draws this bar model to divide 20 into 4 equal groups. How does his model show this? Sharing amounts represented by concrete objects into equal groups. Investigate how you know that you have shared them into	How many do you have to begin with? How many are in each group? How many groups can you make? Grouping using number lines – count backwards to work out equal groups required. Pencils come in packs of _, we need to put _ in each pot. How many pots will be need? There are _ pencils altogether. There are _ pencils in each pot. There are _ pencils in each pot. There are _ pots. You have 30 counters, how many different ways can you put them into equal groups?	Build class tally chart/pictogram based on topics of interest and discuss – What do you notice? How many we count them? Why do we use tallys? How does it make it easier? Completing tally charts based on information given. Collecting information from school to use on charts? What was the most popular/least popular? How do we know? Use data from tally charts to create pictograms. How do we know how many	Matching names of shapes to pictures. Finding 3D shapes in feely bags. What do you notice about each shape? How did you know it was right? What were you feeling for? Shape hunt around school – create tallies, find most common. Discuss difference between 2D and 3D shapes. Rotate shapes – are they still the same? Create 2D shapes by drawing around 3D shapes – what can you create? Odd one out – sides, whether 2D	Matching shapes to correct number of sides. Colour shapes with x amount of sides. Complete table – name, shape, number of sides. What is a side? How can we check that we have counted all the sides? Do all shapes with same number of sides look the same? Ordering shapes by sides.	Using geo-boards to create different 2D shapes. Choosing 2D shapes, building on geo-boards and transferring onto dotted paper. Where will you start drawing your shape? Where is the best place to start? Why is it important to use a ruler when drawing the shapes? Comparing shapes drawn with a partner's. Are they the same position and size? Create as many different rectangles as you can using geo-boards/dotted paper. Hiding shapes on dotted paper –				
	At an co	equal groups.		images to draw? (Pictograms)	or 3D.		what could they be?				

				SPRING 2 MEDIUM-TERM	PLANNING						
Asp	iration for L	ife Differentiated, aspirational target		age for Life Explicit teaching/ expo	osure to new and know vocabulary.		velop cross curricular skills e.g. drama				
	the		NUMBER	Τ		MEASUREMENT					
	tting t	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6				
	s to om ge		Fractions			Length & Height					
	of tools ers, fro cts.	Making Equal Parts	Recognising a Half	Finding a Half	Measure Length (cm)	Measure Length (m)	Compare Lengths				
	ll set c numb conte)		0	RAL/MENTAL STARTERS (Topi	c from the previous week is repeate	ed <sup>1</sup> )					
	wider world. Mathematics equips students with a uniquely powerful set of tools to independently within the world. In everyday life we are faced with numbers, from getting is of maths so they can apply skills to solve problems in a range of contexts.	Can you draw a rectangle on dotted paper? How many straight sides will you need?	How many different ways can you put 12 bean bags into equal	Rosie says the shaded part of the shape does not show a half because there are four parts,	1.1.1.1	How do numbers on a ruler help us?	Amir has a metre stick.				
	nts with a uni yday life we <i>a</i> lve problems	Can you draw other shapes in the same way?	groups? Three children are splitting squares into equal parts – who	not two equal parts. Do you agree with this? Explain why.	Annie has some gummy bears, she circles half of them. How many gummy bears did she have at the start?	How do you know that you have drawn a line that is 5cm long? How can you check?	He wants to measure the length of his classroom.				
	equips stude vorld. In ever ily skills to so	Fraction song or BBC Supermovers (Introduce new topic)	has split the square into equal parts? Explain why.	(Differentiate with shape accordingly)		Why is it so important to start measuring from 0 on the ruler?	How could he measure the length of his classroom?				
	natics the v an app				BULARY						
SPRING 2	orld. Mathen ndently withir hs so they ca	Whole, Equal, Parts, Split, Shape, Equal Groups, Unequal Groups, Object, Quantity	Whole, Equal, Parts, Split, Shape, Equal Groups, Unequal Groups, Object, Quantity, Half	Whole, Equal, Parts, Split, Shape, Equal Groups, Unequal Groups, Object, Quantity, Half	Nearest, Centimetre, Ruler, Length, Long, Number, Measure, Height	Nearest, Centimetre, Ruler, Length, Long, Number, Measure, Metre	Compare, Measure, Length, Height, Longer than, Shorter than, The Same as.				
PR	ider w idepe of mat	IMPLEMENTATION: CONCRETE   PICTORIAL   ABSTRACT REPRESENTATION									
<b>KS2 MATHEMATICS</b>	At Tor View School, we aim to instil in our students a fundamental understanding of how Mathematics links to the v understand and change the world in which they live. Learning basic principles of maths is essential to functioning i right bus, counting money in a shop to employment. Students understand and make connections in different areas	Cubes   Counters Shapes that are cut into equal parts.   Shapes Concrete objects IWB Interactive Resources	Cubes   Counters Shapes/Objects that are split into equal parts.   Shapes Concrete objects IWB Interactive Resources	Cubes   Counters Shapes/Objects that are split into equal parts. Shapes   Concrete objects IWB Interactive Resources	Rulers   Tape Measure Variety of objects to measure length and height in cm. IWB Interactive Resources	Metre Stick Trundle Wheel	Rulers   Tape Measures Objects of reference IWB Interactive Resources				
H	Mathe s esse nectio	IMPACT: SUGGESTED FUNCTIONAL / PROBLEM SOLVING ACTIVITIES									
S2 M#	ng of how of maths i make conr	What is the whole? What are the parts?	The whole gummy bear is split into _ equal parts.			Why do we also have to use metres?					
X	Il understandi isic principles derstand and	How many parts is the object/quantity split into?	Eart part is worth a This can be written as	Share _ beanbags between two containers, then complete the sentences.	Find items that are long/short etc. Estimating and measuring items to nearest centimetre.	Why is it more helpful to use metres instead of centimetres for longer distances/objects?	What is longer – 10 centimetres or 10 metres? How do we know this?				
	undamenta -earning ba tudents un	How do we know that there are equal parts?	Which pictures show ½? (As shapes)	The whole is Half of is	(length and height)	Sorting of objects in classroom into two groups – longer than a metre and shorter than a metre.	Comparing lengths – writing longer than, shorter than and				
	students a t they live. I oloyment. S	Do equal parts always look the same?	Which pictures show ½ (As amounts of objects)	Circle half of groups of objects. Fill in blanks of amounts e.g. 1/2	Measuring items to the nearest centimetre. (length and height)	Comparing measurements – what is the same as 100cm? Measure larger items around	the same as in between measurements.				
	m to instil in our : ie world in which in a shop to emp	Colouring shapes to illustrate how they can be split into equal parts (different quantities	In ½ - What does 1 represent? What does the 2 represent? How many equal parts has the	of 4 – Use counters to help. Colouring shapes to create halves in different ways – e.g. colouring a	Draw lines to specific lengths, as well as in between measurements e.g. 'longer than 4 cm but shorter than 7 cm.	school – combine metre stick and ruler if necessary. Identify and circle objects that you would measure in metres and	Comparing lengths (written) using <, > and = symbols. Choose two objects from				
	w School, we ai d and change th counting money	within shapes) Finding and identifying shapes that are equal and unequal.	shape/object/length been split into?	6 boxes of a rectangle with 12 boxes in. How do you halve amounts?	Problem solving – identifying images of items that haven't been measured correctly, emphasis on	those that you would measure in centimetres. Measuring outside distances – 50m upwards. Experiment with	classroom at time, estimate and measure lengths of objects – compare using language or				
	At Tor Viev understanc right bus, c	Putting objects into equal groups.	Finding odd one out from combination of shapes, objects and written fraction.	now do you haive amounts?	always measuring from 0.	different equipment – trundle wheel, metre stick.	symbols.				

iration for Li	fe Differentiated, aspirational target		SUMMER 1 MEDIUM-TERM age for Life Explicit teaching/ expo		arning for Life Opportunities to de	velop cross curricular skills e.g. drama			
		GEOMETRY			I SOLVING	MEASUREMENT			
ting th	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6			
m get	Position & Direction			Efficient	Methods	Time			
ful set of tools h numbers, fro f contexts.	Describing Movement	Describing Turns	Describing Movement & Turns	Various Problems ( <b>Consolidate</b> and <b>revisit</b> past learning)	Various Problems ( <b>Consolidate</b> and <b>revisit</b> past learning)	O'Clock and Half Past			
d with ge o		OR	AL/MENTAL STARTERS (Top	ic from the previous week is repeat					
s students with a uniquely powerful set of tools to In everyday life we are faced with numbers, from getting the Ils to solve problems in a range of contexts.	What symbols can we use to compare lengths? What is longer – 20 metres or 20 metres?	Amir believes that the sheep has moved 2 squares forward. Is Amir correct? Explain why. (Differentiate and change as appropriate)	Look at the two numicon images – what direction could they have turned in? Think of as many as you can.	Using the words 'forwards', 'backwards', 'clockwise', 'anti- clockwise' and 'quarter turn' How many different routes can you find to get from start to finish?	Select problem relevant to area of study.	Use problem(s) that were revisited in prior week.			
equips s vorld. In o oly skills t		499109114(0)	VOCAF	BULARY					
wider world. Mathematics equivide more of the section of the secti	Forwards, Backwards, Up, Down, Left, Right, Direction, Routes	Full Turn, Half Turn, Quarter Turn, Three-Quarter Turn, Clockwise, Anti-Clockwise	Forwards, Backwards, Up, Down, Left, Right, Direction, Route, Full Turn, Half Turn, Quarter Turn, Three-Quarter Turn, Clockwise, Anti-Clockwise	Choose as relevant to area of study	Choose as relevant to area of study	O'Clock, Half Past, Time, Hour, Half Hour, Minute, Hand			
vider of m	IMPLEMENTATION: CONCRETE   PICTORIAL   ABSTRACT REPRESENTATION								
tics links to the al to functioning n different area	IWB Interactive Resources Images of objects/animals on grids Bee-Bots	IWB Interactive Resources Image Cards 2D triangular shapes. Toy Figures   Numicon   Bee-Bots	IWB Interactive Resources Image Cards Images of objects/animals on grids   Bee-Bots	IWB Interactive Resources Counters   Cubes Shapes   Digit Cards   Numicon Anything that is relevant to area of study.	IWB Interactive Resources Counters   Cubes   Shapes Digit Cards   Numicon Anything that is relevant to area of study.	IWB Interactive Resources Large Clocks   Mini Clocks Time Cards (Written in words and shown on clock)			
Math s est necti	IMPACT: SUGGESTED FUNCTIONAL / PROBLEM SÓLVING ACTIVITIES								
At Tor View School, we aim to instil in our students a fundamental understanding of how Mathema understand and change the world in which they live. Learning basic principles of maths is essentia right bus, counting money in a shop to employment. Students understand and make connections i right bus, counting money in a shop to employment.	Use directional words to give a partner instructions when moving around classroom/playground. How can you describe the movements? How can we record them? Complete stem sentences to describe movements made by animals/insects on a grid. Record movements of animals/insects on a grid – following instructions. Form different routes (physical and written) to get from point A to point B.	Turning toy figures/a partner in small groups/pairs – describe movement. Match images of turns to written descriptions. Move triangles, describe how turn is made each time. Rotate numicon – match/write/explain description of turn.	Describe the route that has been taken on the grid e.g. Forward 1 square. Turn Left. Forward 1 square. Quarter turn clockwise. Draw route to follow directions. Write directions to get to each place on the grid map. Create course in playground/classroom, guide each other to objects in groups. Create course for Bee-Bot, give/follow directions. How can we record directions given?	Revisit learning over academic year. Go through problems from selected area(s) of study. Model and discuss methods of solving problems. Reinforce learning.	Revisit learning over academic year. Go through problems from selected area(s) of study. Model and discuss methods of solving problems. Reinforce learning.	Sequencing significant times of days. Matching events to approximate times they happen. Completing tables – times writte with blank clock and vice versa. Where will the hour hand be a ? Where will the minute hand be at ? Where will the minute hand be at ? What do you notice about the minute hand at half past? Can you show me?			

	SUMMER 2 MEDIUM-TERM PLANNING										
Asp	oiration for L	<b>Life</b> Differentiated, aspirational targ	ets dependent on pupil needs.		ning/ exposure to new and know vocabula EASUREMENT	ary. Learning for Life Opportunitie	es to develop cross curricular skills e.g. drama				
	stand JS,	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6				
	under ght bu	Tir				pacity & Temperature	Wook o				
	ols to the ri	Quarter Past and Quarter To	Telling time to 5 Minutes	Compare Mass	Measure Mass (g)	Compare Volume	Temperature				
	t of too jetting		-	ORAL/MENTAL STARTER	S (Topic from the previous week i						
	Mathematics equips students with a uniquely powerful set of tools to understand world. In everyday life we are faced with numbers, from getting the right bus, apply skills to solve problems in a range of contexts.	Who is telling the time correctly?   Tom says that it is half past 11 so the hour hand should be on the 11. Is he correct? Explain why.   The minute hand has fallen off the classroom clock – it's	Teddy says that quarter past is always later than quarter to. Do you agree with him?	Rosie says "Four lots of 5 minutes is the same as a quarter of an hour" <b>Do you agree with Rosie?</b>	"The larger the box, the heavier it is". Is this statement true?	Which is heavier, the red or green beanbag?	Choose a selection of different sized containers. Decide how you will measure how much liquid each container can hold. Order the				
	equips student yday life we a solve problem	lunchtime at 12:00. Have the children missed their lunchtime?	Explain why?	Explain why.	Investigate using different boxes.		containers from smallest to largest.				
	atics e 1 ever ills to			l l	OCABULARY						
MMER 2	world. thin the ey can	O'Clock, Half Past, Time, Hour, Half Hour, Minute, Hand, Quarter Past, Quarter To	O'Clock, Half Past, Time, Hour, Half Hour, Minute, Hand, Quarter Past, Quarter To, 5 past, 10 / 20 / 25 past etc.	More than, Less than, Heavier, Lighter, Predict, Objects, Weight, Same as	More than, Less than, Heavier, Lighter, Predict, Objects, Weight, Same as, Grams, Mass	Largest, Smallest, Capacity, Order, Liquid, Container, Fill, More, Less, Equal	Scale, Measure, Temperature, Increase, Decrease, Warmer, Colder, Difference, Degrees, Celsius				
SU	wider ntly wi s so th	IMPLEMENTATION: CONCRETE   PICTORIAL   ABSTRACT REPRESENTATION									
HEMATICS	ematics links to the ctioning independer srent areas of maths	IWB Interactive Resources Large Clocks Mini Clocks Time Cards (Written in words and shown on clock)	IWB Interactive Resources Large Clocks Mini Clocks Time Cards (Written in words and shown on clock)	IWB Interactive Resources Scales Objects for weighing. Image Cards	IWB Interactive Resources Scales Objects for weighing Image Cards   Gram Weights	IWB Interactive Resources Containers   Image Cards Rice   Water	IWB Interactive Resources Thermometers				
ATH	' Math to fun n diffe				TIONAL / PROBLEM SOLVING	G ACTIVITIES					
KS2 MATHEMATICS SUMMER	At Tor View School, we aim to instil in our students a fundamental understanding of how Mathematics links to the wider and change the world in which they live. Learning basic principles of maths is essential to functioning independently wi counting money in a shop to employment. Students understand and make connections in different areas of maths so th	Match clocks to correct time. Sequencing significant times of days.   Matching events to approximate times they happen.   Completing tables - times written with blank clock and vice versa. Where will the hour hand be at ?   Where will the minute hand be at? What do you notice about the minute hand at half past? Can you show me? What are the hands pointing to?   Can we divide the clock face into four parts? Can we link to fractions? Show me quarter past/quarter to.   Make a list of quarter past and quarter to time in between hours of an event.	Use demonstration clock to count round in minutes – model filling in a chart and pupils may complete. Show times to 5 minute intervals on large clock – children to identify what time is being made. Children given clocks – give time and children to make and show. Can you showpast/to ? Match times to correct clock. Sequence events through hours/days. Counting round clock in different ways. Where will the minute hand be at? Where will the hour hand be at?	Comparing weights of two different items – work in small groups/pairs/whole class. The lettuce weighs than the pineapple. Predict whether heavier/lighter prior to recording results. Can you hold the objects and predict which is heavier? Is the largest object always heavier? What side is lower on the scales? What does this tell us? Using quantity to make level weights. 4 bananas weigh the same as doughnuts.	Use gram weights to measure mass of objects using a balance scale. Use scales to record the mass of objects in grams. Compare, predict and record different weights of objects in grams Ordering items from heaviest to lightest. When balance scales are level, what does this tell us? How can you tell if something is lighter or heavier than g? How much heavier is the than the How can we work it out?	Show three different containers – which has the largest capacity? Make each container – one quarter full, half full, three-quarters full. Compare more, less, equal – Container A has has than container B Compare up different amounts of containers Fill bottles with mugs and vice versa – use different objects. Investigate and predict. Use mugs of rice to see how many containers can be filled. Which container has the most or least liquid in? Which container has the smallest/largest capacity? Which container has the most of least liquid in?	How can we measure the temperature? What happens when the scale goes up and goes down? If the temperature increases, what happens to the number on the scale? If the temperature decreases, what happens to the number on the scale? Take temperatures around the school – record: The temperature in the classroom is The classroom is than the playground. Colour thermometers to show temperatures. Compare different temperatures. Label temperatures in terms of hot/cold/warm/freezing/hotter/warmer				



## **TOR VIEW**

## A SPECIALIST LEARNING COMMUNITY