



Errington Primary School



Mathematics Policy 2021-2022

Mathematics lead	Policy Completion	Policy Review
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Errington Primary School Mathematics Policy

Policy Statement

At Errington we believe mathematics is a tool for everyday life. It is a whole network of concepts and relationships which provide a way of viewing and making sense of the world. It is used to analyse and communicate information and ideas and to tackle a range of practical tasks and real-life problems. It also provides the materials and means for creating new imaginative worlds to explore.

The purpose of this policy is to describe our practice in Mathematics and the principles upon which this is based.

<u>Aims</u>

We aim to develop lively, enquiring minds encouraging children to become selfmotivated, confident and capable in order to solve problems that will become an integral part of their future. The intent of our mathematics curriculum is to provide children with a foundation for understanding number, reasoning, thinking logically and problem solving with resilience, so they are fully prepared for the future. It is essential that these keystones of Mathematics are embedded throughout all the strands of the National Curriculum.

The National Curriculum for mathematics aims to ensure that pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils have conceptual understanding and are able to recall and apply their knowledge rapidly and accurately to problems.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.
- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Using the Programmes of Study from the National Curriculum for Mathematics we aim to develop:

- An enjoyment and curiosity of mathematics and for children to feel confident in becoming successful.
- Children's abilities to use and apply mathematics to solve problems in both the classroom and real-life contexts.





- A confidence to communicate ideas in both written forms and orally
- Independent and collaborative ways of working, encouraging children to share ideas and solve problems together
- A wide range of mathematical vocabulary to be modelled and used in the classroom environment
- The children's ability to recall mental facts accurately and quickly and using effective written calculation methods
- Children's logical thinking, reasoning and ability to problem solve as transferable life skills.

The National Curriculum

Early Years Foundation Stage

The programme of study for the Foundation stage is set out in the EYFS Framework. It is essential for children to develop a strong grounding in number so that all children develop the necessary building blocks to excel mathematically. At Errington, Mathematics involves providing children with opportunities to develop a deep understanding of number and the relationship between them. Children will be provided frequent and varied opportunities to improve their skills in counting, understanding and using numbers, calculating simple addition and subtraction problems. Errington pupils will be provided opportunities to develop their spatial reasoning skills across all ares of mathematics including shape, space and measures.

By the end of Reception, children are expected to read the Early Learning Goal (ELG) outlined below:

Early Learning Goals:

- Children can count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number.
- Children have a deep understanding of number to 10 including the composition of each number.
- Children can subitise numbers up to 5.
- Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.
- Children recognise, create and describe patterns including even and odds, double facts and how quantities can be shared equally.
- Children explore characteristics of everyday objects and shapes and use mathematical language to describe them.





<u>Key Stage One and Two</u>

The Programmes of study for mathematics are set out year by year for Key Stages 1 and 2 in the new National Curriculum (2014). The programmes of study are organised in a distinct sequence and structured into separate domains. Pupils should make connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

<u>Key Stage One</u>

The principal focus of mathematics teaching in Key Stage 1 is to ensure that pupils develop confidence and fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources (e.g. concrete objects and measuring tools).

At this stage, pupils should develop their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary. Teaching should also involve using a range of measures to describe and compare different quantities such as length, mass, capacity/volume, time and money.

By the end of Year 2, pupils should know the number bonds to 20 and be precise in using and understanding place value. An emphasis on practice at this early stage will aid fluency. Pupils should read and spell mathematical vocabulary, at a level consistent with their increasing word reading and spelling knowledge at Key Stage 1.

<u>Lower Key Stage Two</u>

The principal focus of mathematics teaching in lower Key Stage 2 is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient recorded and non-recorded methods and perform calculations accurately with increasingly large whole numbers.

At this stage, pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Teaching should also ensure that pupils draw with increasing

accuracy and develop mathematical reasoning so they can analyse shapes and their properties, and confidently describe the relationships between them. It should ensure that they can use measuring instruments with accuracy and make connections between measure and number.





By the end of Year 4, pupils should have memorised their multiplication tables up to and including the x12 multiplication table and show precision and fluency in their work.

Pupils should read and spell mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.

<u>Upper Key Stage Two</u>

The principal focus of mathematics teaching in upper Key Stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio.

At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient recorded and non-recorded methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them.

By the end of Year 6, pupils should be fluent in formal written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages.

Pupils should read, spell and pronounce mathematical vocabulary correctly.

Teaching and Learning

At Errington Primary, we believe that teaching should be individualised, so no schemes are followed in order to achieve this. Teachers have access to a variety of websites and planning to support their planning process which enables them to find high quality maths resources.

All lessons aim to teach children to be:

- fluent in their mathematical knowledge and skills.
- able to reason mathematically by following a line of enquiry.
- be able to solve problems by applying their mathematical skills.

The staff at Errington Primary School have high expectations of all children, irrespective of ability, and encourage them to be successful and achieve their full potential.





Children will learn maths using concrete materials first and will then move onto pictorial representations before tackling abstract problems. The CPA (Concrete, Pictorial, Abstract) approach is recommended to deliver a mastery approach to teaching mathematics. True mastery aims to develop all children's mathematical understanding at the same pace. As much as possible, children should be accessing the same learning. Differentiation should primarily be through support, scaffolding and deepening, not through task.

Planning and Organisation

At Errington Primary School, teachers are responsible for the numeracy in their class in consultation with and guidance from the mathematics subject leader. Teachers follow a long term plan (Appendix A). Staff use the White Rose Maths Scheme for a basis for their lessons and use other resources to support the children's learning (Abacus, NCETM, Classroom Secrets, Grammarsaurus, Test Base and Number Sense). Planning in this way ensures that the children have a variety of resources and opportunities to develop their mathematical understanding.

The approach to the teaching of Mathematics within the school is based on:

- a Mathematics lesson every day of an age appropriate length.
- 15 minutes of Number Sense per day in KS1 and Reception.
- 10 minutes of mental maths daily to be completed outside of the mathematics lesson.
- Fluency for five.

In addition to a mathematics lesson, the NCETM Mastering Number scheme will be followed for 15 minutes every day in KS1 and Reception. This aims to systematically teach children core declarative knowledge which will benefit all children including those that are disadvantaged. Ensuring children are able to quickly recall math facts enables them to solve problems and reason without their working memory being overloaded.

Errington's long term plan (Appendix A) ensures that all areas of the National Curriculum are covered within the correct year group. Place Value, Addition and Subtraction, and Multiplication and Division are core mathematical concepts. To ensure that children are able to succeed in these areas, they have been placed at the beginning of the year in blocked units to ensure sufficient time for consolidation. These core areas will be continuously revisited throughout the year during mental maths and fluency for five activities.

At the start of every maths lesson, children will revisit prior learning in a Fluency for Five session. This will ensure children revisit previous learning and that core math facts and skills are practised overtime through spaced learning. Low stake quizzes will be used at the end of each fluency block to assess learning.





Assessment and Record Keeping

The work set, combined with a scrutiny of children's recorded work over the previous weeks, helps to review how well children have taken in the topics taught and identifies any remaining misconceptions. Assessment for learning is embedded in the teaching of Mathematics and teachers use this effectively to quickly identify areas of difficulty and inform planning.

Formal Assessment

Regular assessment in mathematics is important to identify where children are on their mathematic learning journey and as a diagnostic tool to identify areas of development and gaps within subject knowledge.

Teachers level all pupils towards the end of each term using a combination of evidence from recorded work, end of Key Stage SATs, End of Topic Assessments and End of Term Assessments using Errington's Mathematics Assessment document found on the website. NTS Assessments are analysed termly and are used to inform future planning and identify learning gaps.

Inclusion

All teaching and non-teaching staff at Errington are responsible for ensuring that all pupils, irrespective of ability, ethnic origin, belief and social circumstances, have access to the whole curriculum and opportunities to make the greatest progress possible in all areas of the curriculum while at this school.

Children with special educational needs will be taught within the daily mathematics lesson and are able to take part at their level through a range of support mechanisms such as adults, activities and resources. However, we recognise this is not always possible, teachers will plan for SEN children who will work with their one-to-one support to access the level of maths appropriate to them. This will be reflected in a child's SEN Support Plan. When additional support staff are available to support groups or individual children, they may withdraw small groups to provide intervention.

Within the daily Mathematics lesson teachers not only provide activities to support children who find Mathematics difficult, but also activities that provide appropriate challenges for children who are high achievers or gifted and talented in Mathematics.

Homework

Teachers, at their discretion, may provide parents and carers with opportunities to work with their children at home. These activities may only be brief but are valuable in





promoting children's learning in Mathematics. Children have the opportunity at home to access 'Times Tables Rockstars', 'NumberBots', 'Active Learn' and 'Century'.

Role of Subject Leader

- To take the lead in policy development
- To support colleagues.
- To monitor progress in Mathematics –scrutiny of work, analysis of formal assessment data.
- To take responsibility for the choice, purchase and organisation of resources for Mathematics, in consultation with colleagues.
- To be familiar with current thinking concerning the teaching of Mathematics, and to disseminate.

<u>Review</u>

The mathematics policy will be reflected in our practise. The policy will be reviewed September 2022.





<u>Appendix A</u>

					Recept	ion Ma	ths Tin	netable	;				
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	Gett Routines, rul	You You es and introdu the provision.	Know	Just Like Me! Matching and sorting objects. Comparing amounts, saying which has fewer or fewest using a 5 frame. Use of language to state how big, tall, small something is. Creating patters.			Plo Repres composition Triangles hav curved side to, inside	ace Val It's Me 123! enting, compar of the numbe ve 3 sides. Cir e. Spatial awar and out, over	Ting and rs 1,2 and 3. cles have one eness, next and under.	Numbers to 5 Night and Day! Count and subitise numbers to 5. Matching number of objects to the digit. One more and one less. Shapes with 4 sides. Ordering events of the day.			
Spring	Alive In Five Comparing and composition of numbers to 5. Introduce 0. Comparing Mass (heavy/light) and Capacity (full, empty, nearly empty)			Growing 6,7,8 Composition and comparing numbers to 8. Comparing 2 groups of quantities. One more and one less. Making pairs. Comparing height and length. Days of the week			Build Composition 10. Orc Countin Patt	and comparing dering number g backwards f ter and 3D sho	nd 10 g numbers to s to 10. From 10. appes.	Numbers to 10 Comparing and ordering numbers to 10 Composition of numbers to 10. Subitising numbers to 5.			
Summer	To 20 Ordering and Missing nu Matchi	D and be d comparing nu Counting to 20 mbers and num ng and naming	eyond Imbers to 20. D. Inber bonds. Shapes.	Firs: Counting or Recognis	t Then n, adding more away. sing shapes an patterns.	Now e and taking d making	Find my Pattern Doubling and sharing. Even and odd numbers.			On the Move Subitising numbers. Patterns. Comparing length and height - longes shortest, tallest, smallest.			





					Ye	ear 1 Ma	ths Timetab	ole				
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place Value Numbers to 10 then 20. Ordering numbers, comparing numbers, counting one more and one less and ordinal numbers. Addition Subtro Introducing '+' symbol number bonds 5,6,7,4 Subtraction by crosse iter				dition of btract s' symbol, part s 5,6,7,8. Ado y crossing out items.	and ion whole model, ling 1,2 and 3, t and removing	n nole model, 1,2 and 3, ind removing				Addition Subtro Fact fa Comparing sente Finding the	on and action milies number nces difference
Spring	Place Value Counting forwards and backwards to 50/100. Writing, reading and making 2- digit numbers. Understanding 2- digit numbers are tens and ones. One more and one less than numbers to 50/100. Add Subtra			Additic Subtro Revise numb Add by cou Subtraction c crossing	on and action ber bonds unting on rossing not g 10s.	Length and Height ^{Comparing} and measuring	Multiplication and Division Counting in 2s, 5s and 10s. Doubling and halving numbers. Using coins to count.			Measures Weight and Mass Comparing mass. Mass problems Recapping measuring length and height. Writing results in a table.		Ad + S Subtract crossing 10s. Review counting on.
Summer	Pla Va (Withi Comparing 1 more/1 more/1	ICE IUE In 100) 9 numbers 1 less. 10 10 less	Multip and C Recap cou an Makir Sharing d	Division Finding Notision Nating in 25,55 d 105. Ing arrays equal groups		ctions ng a half a quarter	Position and Direction Turns Recap shapes and use them to turn	Ti Dates and cale Telling the hour/h	Me d reading a indar. time to the alf past.	Consolidation	Money - coins and adding them	Add + Sub Addition and subtraction recap





					Year 2	Math	ns Timetab	ole				
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Pla Counting backwards. Red Ord Tens and on Tens and o Represen Recap cour Ord	to 100 forwar ading and writ to 100. ering numbers es within 50 t nes part whole ting numbers ating in 2s,5s o dinal numbers.	IC ads and ing numbers s. then 100. e model. to 100. and 10s.	Add Sul Fact far subtro Comparir Bono Adding a 10 n Adding a 1-c	dition ar btractic milies - addition action bonds to ag number sente ds to 100 (tens) and subtracting nore and 10 less digit and 2-digit	nd and 20. ences, ones. : number.	Mone Recognising coins of Counting mon Adding mon Making amou Comparing mo Finding the total difference of mone money proble	Y and notes. ney. ey. nts. oney. and the ey. Solving ems.	Mul + Div Counting in 2,5s and 10s. Making arrays.	Consolidation	Shapes Recognising and identifying 2D and 3D shapes. Properties of shapes.	Time Recap telling the time to hour/half past. Tell time to quarter past and quarter too.
Spring	Place Value Partitioning numbers Place value additions. Ordering numbers.	Additi Subtr Adding/subtr and 2-digir Adding/subtr digit nu Number bo Add three si	on and action Pacting 1-digit t numbers. Pacting two 2- umbers. Dands to 100 mall numbers	Multipl and D Multiplying b Diving by	lication ivision by 2,5 and 10. 2,5 and 10.	St Tally char blo Reading preser	atistics ods, pictograms and ock diagrams. tables with a key nting 2,5 and 10.	Fractions Finding a half and a quarter of shapes and a quantity. Finding a third. Equivalent fractions.		Add + Subt Add and subtract 2-digit numbers.	Consolidation	Mult + Div Doubling Odd and even numbers Dividing by 2,5 and 10.
Summer	Mea Length and he non- Compare Measure wei Read scales or	SUPEME eight using sta standard unit: lengths and he ght and mass. volumes. n a thermomet and 10s.	ent andard and s. eights. . Compare ter in 2s,5s	Add + Sub Missing number problems.	Shape Recap naming and identifying properties of 2D and 3D shapes Line of symmetry. Making patterns.	Tell the time to 5 minutes.	Position and Direction Describe position and movement. Describe turns.	Add + Sub . Adding and subtracting 2-dig numbers.	Mult + Div Mut and Divide by 2,5 and 10. Count in 3s.	Consolidation SATS	Fract Count in fractions. Finding three quarters of a shape or amount.	Place Value Compare 2- digit numbers. Number bonds to 100. Place value of 3-dig numbers.





					Year 3	3 Maths Tin	netable					
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Ple Represent nur te Part w Find 1, 10 Count Representin numbers. Know Comparing an	ace Value nbers to 100 id ons and the one hole - tens and 0 and 100 more ring in 100s to 1 ng and partition ing the place van numbers. d ordering 3-d Count in 50s. oman numberals	JE lentifying the s. ones. or less. 1000. ning 3-digit alue of 3-digit igit numbers.	Additi Rec Add and subtr	on and S ap adding and sul act 1-digit, and a from 3-digit nu Add and subtrad	ubtraction otracting 1s. 2-digit numbers to and mbers. ct 100s.	Multi Recap multipl Multiply Patterns and	Consolidation	SP Recap st Turns Comp drawi Making	Shape Recap 3D and 2D shapes. Turns and angles. Comparing and drawing angles. Making 3D shapes.		
Spring	Addition Subtro Adding and sub 3-digit no	on and action otracting two umbers.	Multipl and D Recap mult dividing b Multiply by patterns betw 8 times	ication ivision riplying and y 3 and 4. 8 and show yeen the 4 and tables.	Recap counting money. Add and subtract money. Give change.	Statistics Drawing and interpreting tally charts, pictograms, bar charts and tables.	Measure le m/cm Add and subt Calculating au the per	rement ngths using n/mm. tract lengths. nd measuring rimeter.	Fracti Finding half/ and a th Equivalent fr	quarter ird. pactions.	Consolidation	Mult/ Div Multiply 2- digit by 1- digit numbers.
Summer	Multipl and Di Multiply and a by 1-c	ication vision livide 2-digit digit.	Fractions on a Equivalent Compare frac Add and subtr	tions in tenths. a number line. fractions and order tions tract fractions.	Recap telling t Tell the 24 Roman num	ime e time to 5 minutes. me to a minute. our clock. ral clock and the mbols. Measure Add and sub Measure of Compare Recap tem		rement compare mass. otract mass. capacity. e volume. mperature.	Mult/ Div Divide with remainders Mult/divid 2-digit by 1-digit.	Consolidation	Add Sub Add and 3-digit n forma	d and tract subtract two umbers using methods.





					Yea	ir 4 Ma	ths Time	table					
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	Pl Recap place Rounding t Partiti Find 1 Compare	ace Val ap numbers to 1 e value of 100s to the nearest oning 4-digit nu 1,10,100 more o e and ordering to	UE 1000. , 10s and 1s. 10 and 100. Jumbers. r less. numbers.	Add Sul Add and sub Add and Add and	dition of btract 1,10,10 subtract two numbers. subtract two numbers.	and ion 0 and 1000. 9 3-digit 9 4-digit	Measur Equivalent len and mn Introduce k Add and subt Measure p	ement ngths - m/cm n/cm. kilometres. ract lengths. erimeter.	Mult/ Div Multiply and divide by 10 and 100. Recap 3, 4 and 8 times tables.	Consolidation	Multiplication and Division Multiply and divide by 3, 6 and 9 showing the patterns and relationship between them. Multiply and divide by 7.		
Spring	Place Value Negative numbers. Roman numerals.	Add/ Subt Adding and subtracting two 4-digit numbers Finding missing numbers.	Area Counting squares. Find the area of rectilinear shapes.	Multiply and Divide 11 and 12 times tables. Factor pairs Multiply 3 numbers. Multiply 2-digit by 1- digit.		Fractions Recap unit and non-unit fractions. What is a fraction. Counting in tenths. Equivalent fractions. Adding and subtracting fractions. Fractions of a quantity.			Decim Tenths and hun Tenths on a nun Divide 1-digit l 2-digit by Place value of on place valu	ndredths. mber line. by 10 and 100. decimals ie frid.	Consolidation	Stat Interpreting charts. Line graphs.	
Summer	Recap bonds to 10 and 100. Make a whole by adding decimals. Compare and order decimals. Rounding decimals.		Mult/ Div Recap times tables.	Mor Adding and s money. Find Estimatin Ordering	1EY subtracting ing change. g money. g money.	Geor Compare identify ang Recap shap prop Position	netry , order and gles and turns. es describing erties. on a grid.	Mult/ Div Recap times tables.	Time Recap telling time. Converting 12 hour to 24 hour. Years/months weeks and days.	Consolidation	Geometry Classify quadrilaterals and triangles based on properti Lines of symmetry.		





						Year !	5 Time	table				
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place Value Recap 1000s, 100s, 10s and 1s. Numbers and place value to 10,000 then 100,000 and then 1 million. Compare and order numbers to 1 million. Counting forward and backwards with negative numbers. Roman numerals Addition and Subtraction Add and subtract numbers with more than 4 digits. Round to estimate answers and use inverse operations. Solve multi-step problems					Multiply and Divide Multiplies, factors, prime numbers, cube numbers and square numbers			Measu Recap Perimeter. Calculate the area.	Consolidation	Stat Reading, interpreting and drawing line graphs.	Mult/ Div Multiply and divide by 10,100 and 1000
Spring	Add/ sub Adding and subtracting more than 4-digit numbers.	Recap mu Recap mu Multiply Recap div Divide	Ultiply Divide Itiply 1-digit digit numbe ply 4-digit by 2 and 3-digi vide 2/3-dig numbers. 4-digit by 1- remainders	and by 2 and 3- rs. y 1-digit. t by 2-digit. it by 1-digit edigit with s.	Recap Convert imp Mu	equivalent fro roper fraction ir Compa Add a Add and Itiply fraction Calculat Using f	Fractions actions and functions in to mixed number of the mixed number and subtract subtract mixes s and mixed number fractions as of fractions as of	PNS ractions greate umbers and mix tions. fractions. fractions. ed numbers. numbers by inte f a quantity. perators.	r than 1. ed numbers to egers.	Decimals as fractions. Thousandths as decimals. Order and compare decimals.	Consolidation	Percentages. Percentages as fractions and decimals. Equivalent fractions/ decimals/ percentages.
Summer	Decil Adding and s decimals wit and with a number of plac	mals subtracting h the same different decimal es.	Geol Recap iden a Measur Calculate Recap tr Calc	tifying angels a nd ordering ang re and draw ang protractor. angles on a stra around a point iangles and qua ulate angles in s 3D shapes.	Shape nd comparing els. els with a ight line and t. drilaterals. shapes.	Position and a gr Position in quadrant. T with coor Recap symmetry. with coor	+ Dir scribing drawing on bid. the frst Translation bdinates. line of Reflection bdinates.	Deci Multiply and divide decimals by 10, 100 and 1000.	Volume Comparing and estimating volume.	Consolidation	Measu Convert Convert Convert Metres Milligran Metric and Converting Converting ti	ting units of surement. kilometres and grams and grams. ns and grams. d imperial units. g units of time. me on timetables.





					У	ear 6 T	Timetak	ole				
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place Recognise value of eco number 10,000 Compare numbers numbers Roman n	Value the place ach digit in rs up to 0,000. and order s. Round pers. numbers. umerals.	Additie Subtre Add and numbers wit 4-digits using met Add and integ	on and action subtract h more than g the column hod. subtract gers.	Multi Recap multip by Recap divid remainders. S Recap facto and	plicatio Division Olying 2,3,4 -dig 2-digit number ing 4-digit by 1 5hort division, rs, multiples, p I square numbe	n and git numbers rs. -digit with long division. rimer/cube rs.	Pos + Direc Four quadrants. Translations and reflections.	Frac Recap equivalent fractions and simplifying fractions. Convert improper fractions and mixed numbers		Fractions on a number line, compare and order fractions. Add and subtract fractions. Multiply and divide fractions by integers. Fractions of amounts.	
Spring	Decimals Multiply and divide decimals by 10,100 and 1000. Multiply and divide decimals by integers. Decimals as fractions.		Percer Fractions to Equivalent decimo percen Percentages	percentages. fractions, als and atages. of amounts.	Algebra Forming expressions. Substitution Use formulae Solve two step equations Are paral		Measu Converting measure Area and Area of a t parallelogra cu	units: metric and imperial isures. perimeter. triangle and a m. Volume of a boid.	Katio Ratio and fractions. Calculating ratio. Use scale factors.		Consolidation	Stat Line graphs and pie charts. The mean
Summer	She Angles on line and Missing sha Draw shap nets acc	a straight- a point. angles in pes. bes and 3D curately.	SA revi	TS sion	Re	evision (and con	solidatio	on	Consolidation	Revi	ision



