



MATHS - WHOLE SCHOOL

OUR AIMS

Our aims at The Gillford Centre and at School 180 are to provide all our pupils with a full Mathematics curriculum.

In Primary we follow the White Rose Maths scheme of work for our pupils. This is a national scheme, planned around the national curriculum and has many fantastic resources to support learning in Mathematics. It is also used in many local schools which keeps our pupils in line with learning when they come to us or leave us for mainstream school.

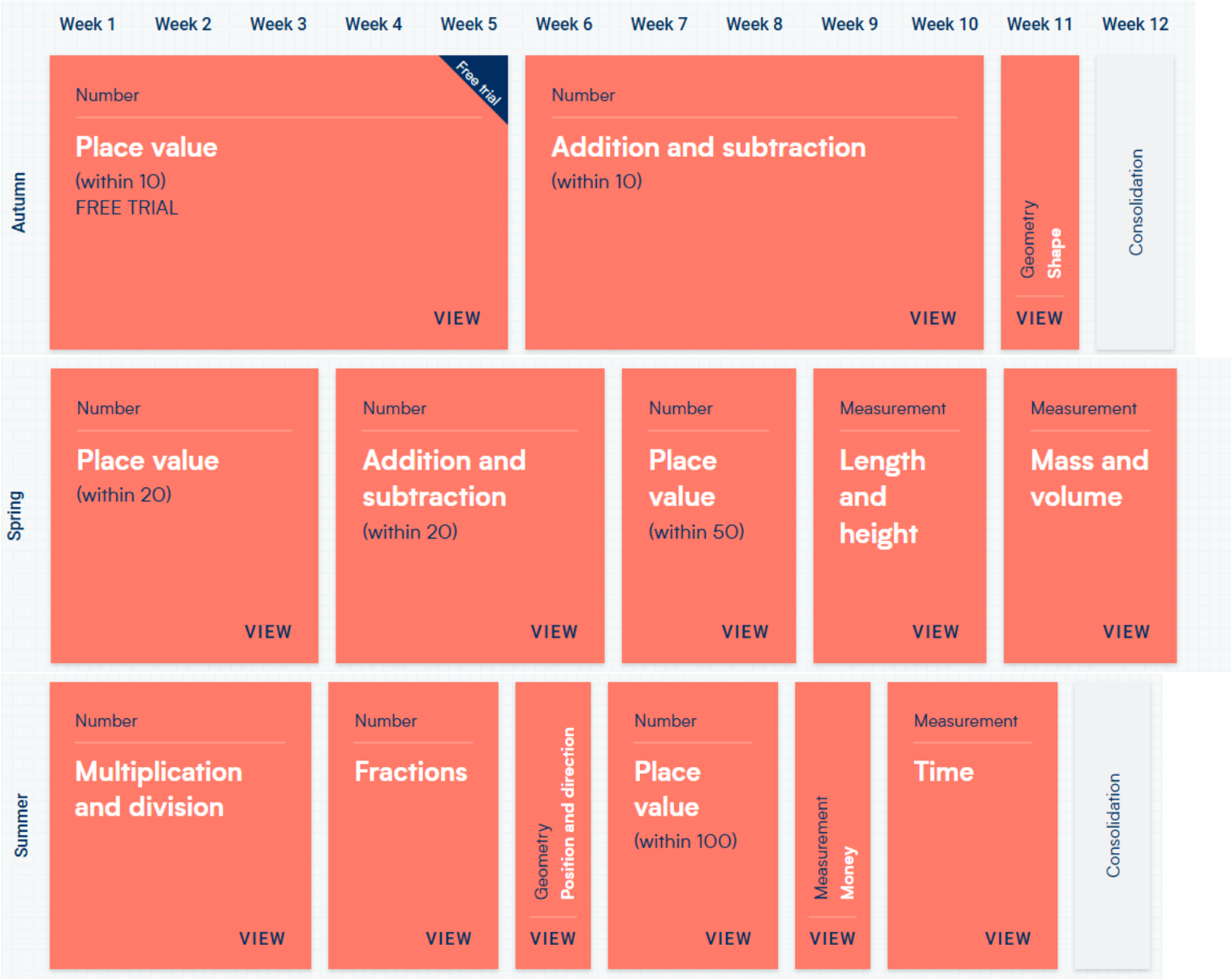
In KS3 we also follow the White Rose Maths scheme of work for our pupils. This national scheme, planned around the national curriculum follows from KS2 and prepares pupils for KS4. It has fantastic resources to support learning in Mathematics. It is also a great comfortable and familiar follow on for many pupils who will have been taught using the scheme in their primary schools.

In KS4 we follow a one year GCSE program of study which we repeat in both year 10 and 11. This allows the pupils to build up their knowledge and work on the grade 1 to 3 topics in year 10 (extending to year 4 on occasions) and revising the skills in year 11 and extending them to the grade 4 and 5 topics. We also work towards other nationally recognised qualifications including Entry Level Certificate in Mathematics and Functional Skills in Mathematics during KS4 to give all our pupils the best chances for the next stage of their life; applying for college or apprenticeships with relevant qualifications secured.



Curriculum overview

Year one



Curriculum overview

Year two

	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	<div>Number</div> <div>Place value</div> <div>FREE TRIAL</div> <div>VIEW</div>				<div>Number</div> <div>Addition and subtraction</div> <div>VIEW</div>				<div>Geometry</div> <div>Shape</div> <div>VIEW</div>			
Spring	<div>Measurement</div> <div>Money</div> <div>VIEW</div>		<div>Number</div> <div>Multiplication and division</div> <div>VIEW</div>				<div>Measurement</div> <div>Length and height</div> <div>VIEW</div>		<div>Measurement</div> <div>Mass, capacity and temperature</div> <div>VIEW</div>			
Summer	<div>Number</div> <div>Fractions</div> <div>VIEW</div>		<div>Measurement</div> <div>Time</div> <div>VIEW</div>		<div>Statistics</div> <div>VIEW</div>		<div>Geometry</div> <div>Position and direction</div> <div>VIEW</div>		<div>Consolidation</div>			

Curriculum overview

Year three

	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	<div>Number</div> <div>Place value</div> <div>FREE TRIAL</div> <div>VIEW</div>			<div>Number</div> <div>Addition and subtraction</div> <div>VIEW</div>				<div>Number</div> <div>Multiplication and division A</div> <div>VIEW</div>				
Spring	<div>Number</div> <div>Multiplication and division B</div> <div>VIEW</div>		<div>Measurement</div> <div>Length and perimeter</div> <div>VIEW</div>		<div>Number</div> <div>Fractions A</div> <div>VIEW</div>		<div>Measurement</div> <div>Mass and capacity</div> <div>VIEW</div>					
Summer	<div>Number</div> <div>Fractions B</div> <div>VIEW</div>	<div>Measurement</div> <div>Money</div> <div>VIEW</div>	<div>Measurement</div> <div>Time</div> <div>VIEW</div>			<div>Geometry</div> <div>Shape</div> <div>VIEW</div>	<div>Statistics</div> <div>VIEW</div>	<div>Consolidation</div>				

INSPIRING CHILDREN, CHANGING LIVES FOR A BRIGHTER FUTURE

Curriculum overview

	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	Number Place value FREE TRIAL VIEW				Number Addition and subtraction VIEW			Measurement Area VIEW	Number Multiplication and division A VIEW			Consolidation
Spring	Number Multiplication and division B VIEW		Measurement Length and perime... VIEW		Number Fractions VIEW							Number Decimals A VIEW
Summer	Number Decimals B VIEW	Measurement Money VIEW	Measurement Time VIEW		Consolidation		Geometry Shape VIEW		Statistics VIEW		Geometry Position and direction VIEW	

Year four

SCHOOL READY



WORK READY



LIFE READY

INSPIRING CHILDREN, CHANGING LIVES FOR A BRIGHTER FUTURE

Curriculum overview

Year five

	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	<div>Number</div> <div>Place value</div> <div>FREE TRIAL</div> <div>VIEW</div>		<div>Free trial</div>	<div>Number</div> <div>Addition and subtrac...</div> <div>VIEW</div>		<div>Number</div> <div>Multiplication and division A</div> <div>VIEW</div>			<div>Number</div> <div>Fractions A</div> <div>VIEW</div>			
Spring	<div>Number</div> <div>Multiplication and division B</div> <div>VIEW</div>			<div>Number</div> <div>Fractions B</div> <div>VIEW</div>		<div>Number</div> <div>Decimals and percentages</div> <div>VIEW</div>			<div>Measurement</div> <div>Perimet... and area</div> <div>VIEW</div>		<div>Statistics</div> <div>VIEW</div>	
Summer	<div>Geometry</div> <div>Shape</div> <div>VIEW</div>			<div>Geometry</div> <div>Position and direction</div> <div>VIEW</div>		<div>Number</div> <div>Decimals</div> <div>VIEW</div>		<div>Number</div> <div>Negative numbers</div> <div>VIEW</div>	<div>Measurement</div> <div>Conver... units</div> <div>VIEW</div>		<div>Measurement</div> <div>Volume</div> <div>VIEW</div>	

INSPIRING CHILDREN, CHANGING LIVES FOR A BRIGHTER FUTURE

Curriculum overview

Year six

	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	Number Place value FREE TRIAL VIEW	Number Addition, subtraction, multiplication and division VIEW						Number Fractions A VIEW		Number Fractions B VIEW		Measurement Converting units VIEW
Spring	Number Ratio VIEW	Number Algebra VIEW	Number Decimals VIEW	Number Fractions, decimals and percentages VIEW	Measurement Area, perimeter and volume VIEW	Statistics VIEW						
Summer	Geometry Shape VIEW	Geometry Position and direction VIEW						Themed projects, consolidation and problem solving VIEW				

SCHOOL READY



WORK READY



LIFE READY

INSPIRING CHILDREN, CHANGING LIVES FOR A BRIGHTER FUTURE

Curriculum overview

Year seven

	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	Algebraic thinking Sequen... FREE TRIAL VIEW	Algebraic thinking Unders... & use algebraic notation VIEW	Algebraic thinking Equality & equiv... VIEW		Place value & proportion Place value & ordering integers & decimals VIEW		Place value & proportion Fraction, decimal & percentage equivalence VIEW					
Spring	Applications of number Solving problems with addition & subtraction VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW	Applications of number Solving problems with multiplication & division VIEW
Summer	Lines & angles Constructing, measuring & using geometric notation VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW	Lines & angles Developing geometric reasoning VIEW

SCHOOL READY



WORK READY



LIFE READY

INSPIRING CHILDREN, CHANGING LIVES FOR A BRIGHTER FUTURE

Curriculum overview

Year eight

	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	Proportional reasoning Ratio & scale FREE TRIAL VIEW	Proportional reasoning Multipli... change VIEW	Proportional reasoning Multipl... and dividing fractions VIEW				Representations Working in the Cartesian plane VIEW			Representations Repres... data VIEW		Representations Tables & Probability VIEW
Spring	Algebraic techniques Brackets, equations & inequalities VIEW				Algebraic techniques Sequences VIEW	Algebraic techniques Indices VIEW	Developing Number Fractions & percentages VIEW			Developing Number Standard index form VIEW		Developing Number Number sense VIEW
Summer	Developing geometry Angles in parallel lines & polygons VIEW	Developing geometry Area of trapezia & circles VIEW	Developing geometry Line symmetry & reflection VIEW				Reasoning with data The data handling cycle VIEW				Reasoning with data Measures of location VIEW	

SCHOOL READY



WORK READY



LIFE READY

INSPIRING CHILDREN, CHANGING LIVES FOR A BRIGHTER FUTURE

Curriculum overview

	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	Reasoning with algebra Straight line graphs FREE TRIAL VIEW	Reasoning with algebra Forming & solving equatio... VIEW	Reasoning with algebra Testing conject... VIEW	Constructing in 2 & 3 dimensions Three dimensional shapes VIEW	Constructing in 2 & 3 dimensions Constructions & congruency VIEW							
Spring	Reasoning with number Numbers VIEW	Reasoning with number Using percent... VIEW	Reasoning with number Maths & money VIEW	Reasoning with geometry Deduct... VIEW	Reasoning with geometry Rotation & translat... VIEW	Reasoning with geometry Pythag... theorem VIEW						
Summer	Reasoning with proportion Enlarge... & similarity VIEW	Reasoning with proportion Solving ratio & proport... problems VIEW	Reasoning with proportion Rates VIEW	Representations & revision Probab... VIEW	Algebraic Representation VIEW	Revision						

Year nine

SCHOOL READY



WORK READY



LIFE READY

Curriculum overview

Key Stage 4

During KS4 we teach a one-year GCSE and repeat it in both year 10 and 11, this allows the pupils to build up their knowledge and work on the grade 1 to 3 topics in year 10 (extending to year 4 on occasions) and revising the skills in year 11 and extending them to the grade 4 and 5 topics.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week11	Week12
Autumn												
	Number 1						Algebra 1					
ZSpring												
	Geometry and Shape 1						Data handling			Probability		
Summer												
	Ratio and Proportion			Geometry and Shape 2						Number 2		



Curriculum overview

ENRICHMENT OPPORTUNITIES

Playing darts - uses addition, subtraction and multiplication

Playing snooker - adding up the score

Organising a family day out- look at costings, times of buses or trains, food costs.

HOW TO SUPPORT YOUR CHILD'S LEARNING

Most importantly be positive about maths. Try not to say things like "I cannot do maths" or "I hated maths at school"- your child may start to think like that themselves.

You can support your child's learning in maths by pointing out maths in everyday life:

- Read bus timetables, ask questions such as " how long until the next bus" or " how many minutes does it take the bus to get from Upperby Road to Lowther Street?"
- When shopping round the items to the nearest pound and estimate the total of the shopping. As your child improves round to the nearest 50p or ask them to figure out how much change you will get .
- When baking or cooking look at the recipe together, discuss that if the recipe is for 4 people and you need to make it for 8 people what would you do with the measures?
- Ask your child the time, especially and analogue clock as they often find this more difficult than digital clocks.
- Focus on multiplication tables and ask questions regularly so that they are able to recall these basic facts quickly.
- Learn number bonds to 10, then 100 and then 1000.eg "What do I add to 36 to make 100?"

WHAT TO WATCH:

Number blocks - <https://www.youtube.com/channel/UCPlwyN0w4qFSP1FIILB92w>

Cyber chase- https://www.youtube.com/results?search_query=cyberchase&sp=mAEB

Monster Maths Squad - https://www.youtube.com/channel/UCha_jVVIHfH-m_pGY8erN7w

ONLINE:

White Rose Maths - <https://whiterosemaths.com/>

My maths (pupils have their own log in) – <https://www.mymaths.co.uk/>

TT Rockstar (pupils have their own log in) - <https://trockstars.com/>

