Y6 Maths overview 2019-20

Maths Activity	Desired Skills	Approaches to Developing Skills	Desired Knowledge and Understanding	Approaches Developing Knowledge and Understanding	Curricula Materials	Assessed through (T1 T2 T3)		
						Arithmetic Problem solving Times tables Reasoning		
Fluency	• recall the answers to basic math facts automatically and without hesitation	Times table testing- each class has a weekly slot to test the children on their timetables 144 Club- Incentive for children to learn all of their times tables	Understanding place value of numbers Understanding addition and subtraction of numbers	• Class teacher modelling • Class differentiated tasks	**TERM 1:** • Number and place value • Addition and subtraction • Multiplication and division • Fractions (including decimals and percentages	Most children will be able to… (working at)	Some children will not yet be able to…(working towards)	Some children are confidently able to… (exceeding)
Reasoning	• follow a line of enquiry, • conjecturing relationships and generalisations, • develop an argument, • justify or prove using mathematical language	Display the appropriate Maths vocabulary to support children as reasoning requires a lot of active talk	Understanding Geometry- shape/positional language	• Concrete resources available • Using outdoor opportunities				
Problem solving	• identify and understanding the problem, • plan the ways to solve a problem, • monitor progress in tackling a problem • review a solution to a problem	Opportunities to apply this skill in their maths lessons daily Problem-solving is applied across other subjects such as Science and DT We will be having a problem- solving focused week in the year which will link to another subject	Understanding multiplication and division of numbers Ratio/percentages Understanding Measurement- length/weight/ volume/height time/money/temp erature/capacity	• Money week • Mathletics online resource • Maths home learning • Problem-solving opportunities in lessons	**TERM 2:** • Ratio and proportion • Measurement • Algebra • Geometry- properties of shapes and position and direction • Statistics			
Mathletics	• apply the skills they have learnt	Children can access Mathletics at home. Teachers monitor the child's progress by accessing what level the child is on Rewards are given in Friday assemblies for completing certain levels	Understanding fractions of numbers					
Presenting data/Com municating	• use a variety of software (excel) to present information	Opportunities to use excel to present collected data	Problem solving Decimals		**TERM 3:** • Angles, 2D and 3D shape and transformations • Calculating with whole numbers and decimals			
SMSC	• research in pairs or individually according to given briefs • enjoyment of Y6 Maths curriculum (investigating, problem-solving, teamwork, collaborating, presenting)	Provide opportunities for children to research in pairs Plan in collaboration, teamwork, problem-solving and investigating opportunities	Understanding statistics					