Y3 Maths overview 2019-20

Maths Activity	Desired Skills	Approaches to Developing Skills	Desired Knowledge and Understanding	Approaches to Developing Knowledge and Understanding	Curricula Materials	Assessed through (T1 T2 T3)		
						Arithmetic Reasoning	Problem solving	Times tables
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 Understanding Geometry- shape/positional language Understanding multiplication and division of numbers Understanding Measurement- length/weight/ volume/height time/money/temperature/capacity Understanding fractions of numbers Problem solving Understanding statistics	• Class teacher modelling • Class differentiated tasks • Concrete resources available • Using outdoor opportunities • Money week • Mathletics online resource • Maths home learning • Problem-solving opportunities in lessons	**TERM 1:** • Reasoning within 100 • Place value • Multiplication and division word problems • Time: analogue, digital and finding how long • 3 digit numbers and 4 digit numbers • Word problems • Addition and subtraction with up to 4 digits **TERM 2:** • Using 10s, 100s and 1000s to multiply and divide large numbers • Graphs • Fractions, length and perimeter **TERM 3:** • 6 & 8 times tables • Length, weight and volume • 7 & 9 times tables • Exploring calculation strategies • Angles and shapes	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						
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						
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 Fridays assemblies for completing certain levels						
Presenting data/ Communicating	• use a variety of software (excel) to present information	Opportunities to use excel to present collected data						
SMSC	• working with others of different religious, ethnic and socioeconomic backgrounds, according to given briefs wider knowledge of Y3 maths curriculum • resolve conflicts and differing opinions should these arise • use of imagination and creative thinking • reflect on tasks • opportunities to and willingness to explore and understand maths from a variety of cultural backgrounds enjoyment of Y3 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						