Characteristics of Effective Learning		
Playing and Exploring - Engagement	Active Learning - Motivation	Creating and Thinking Critically - Thinking
 Finding out and exploring ✓ Playing with what they know ✓ Being willing to 'have a go' ✓ 	 Being involved and concentrating ✓ Keeping on trying ✓ Enjoying achieving what they set out to do ✓ 	 Having their own ideas (creative thinking) ✓ Making links (building theories) ✓ Choosing ways to do things (critical thinking ✓

Area of Maths	Knowledge and skills
To know and use numbers	Recites numbers from 0-10 (and beyond) and back from 10-0. (Bto5)
	Puts numerals in order 0-10.
Working towards meeting ELGs:	Count objects, actions and sounds (DM)
Number: Subitise (recognise quantities without counting) up to 5;	Estimates of numbers of things, showing understanding of relative size (Bto5)
Number Patterns: Verbally count beyond 20, recognising the pattern of the counting	Count out a smaller number from a later group (DM)
system;	Recognise quantities to 5 without counting them.
Compare quantities up to 10 in different contexts, recognising when one quantity is	Link the number symbol with its cardinal number value.
greater than, less than or the same as the other quantity;	Count beyond ten.
	Compare numbers and groups of objects.
To add and subtract	Find one more and one less than a given number to 10.
	Explore the composition of numbers to 10 (DM)
Working towards meeting ELGs:	Automatically recall number bonds for numbers 0-10 (DM)
Number: Have a deep understanding of number to 10, including the composition of each	Begins to explore and work out mathematical problems, using signs and strategies of
number;	their own choice, including (when appropriate) standard numerals, tallies and "+ or -".
Automatically recall (without reference to rhymes, counting or other aids) number	
bonds up to 5 (including subtraction facts) and some number bonds to 10, including	
double facts.	
To multiply and divide	Explore the composition of numbers to 10 (DM)
Working towards meeting ELGs:	
Number Patterns: Explore and represent patterns within numbers up to 10, including	
evens and odds, double facts and how quantities can be distributed equally.	

To use fractions	Begin to share amounts and shapes equally with support.
Working towards meeting ELGs:	
Number Patterns: Explore and represent patterns within numbers up to 10, including	
evens and odds, double facts and how quantities can be distributed equally.	
To understand the properties of shapes	Uses informal language and analogies (e.g. heart-shaped and hand-shaped leaves) as well as mathematical terms to describe shapes. (Bto5)
Working towards meeting Development Matters:	Enjoys composing and decomposing shapes, learning which shapes, learning
Number Patterns: Select, rotate and manipulate shapes in order to develop spatial	which shapes combine to make other shapes. (Bto5)
reasoning skills.	Uses own ideas and make models of increasing complexity, selecting blocks
Compose and decompose shapes so that children recognise a shape can have	needed, solving problems and visualising what they will build. (Bto5)
other shapes within it, just as numbers can.	Spots patterns in the environment, beginning to identify the pattern "rule". (Bto5)
Continue, copy and create repeating patterns.	Choose familiar objects to create and recreate repeating patterns. (Bto5)
To describe position, direction and movement	Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints (Bto5). Investigates turning and flipping objects in order to make shapes fit and create models: predicting and visualising how they will look (spatial reasoning) (Bto5). May enjoy making simple maps of familiar and imaginative environments, with land marks (Bto5).
To use measures	Enjoys tackling problems involving prediction and discussion of comparison of length, weight or capacity, paying attention to fairness and accuracy. (Bto5)
Working towards meeting Development Matters:	Becomes familiar with measuring tools in everyday experiences and play. (Bto5)
Number Patterns: Compare length, weight and capacity.	Is increasingly able to order and sequence events using everyday language related to time. (Bto5)
	Beginning to experience measuring time with timers and calendars. (Bto5)
To use statistics	Begin to draw tally charts and pictogram with support
To use algebra	With support addition and subtraction problems are solved to find the missing number.
Vocabulary: See Maths vocabulary sheet for EYFS/Class 1	
Other areas of the EYFS that Maths will enable the children to work towards meeting E	:LGs:
Listening, Attention & Understanding: Listen attentively and respond to what they head discussions and small group interactions;	r with relevant questions, comments and actions when being read to and during whole class

Make comments about what they have heard and ask questions to clarify their understanding;

Hold conversation when engaged in back-and-forth exchanges with their teacher and peers.

Speaking: Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary;

Express their ideas and feelings about their experiences using full sentences, including use of past, present and future tenses and making use of conjunctions, with modelling and

support from their teacher.

Self-Regulation: Show an understanding of their own feelings and those of others, and begin to regulate their behaviour accordingly;

Set and work towards simple goals, being able to wait for what they want and control their immediate impulses when appropriate;

Give focused attention to what the teacher says, responding appropriately even when engaged in activity, and show an ability to follow instructions involving several ideas or actions.

Managing Self: Be confident to try new activities and show independence, resilience and perseverance in the face of challenge;

Explain the reasons for rules, know right from wrong and try to behave accordingly;

Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

Building Relationships: Work and play cooperatively and take turns with others;

Form positive attachments to adults and friendships with peers;

Show sensitivity to their own and to others' needs.

DM = Development Matters Bto5 = Birth to Five