

Maths Mastery	Catch Up® Numeracy
Assumes everyone can learn and enjoy mathematics – accessible to <u>all</u> pupils	Catch Up® Numeracy sessions are fun and specifically planned to engage all pupils as individuals
Mathematical learning behaviours are developed - pupils to focus and engage fully as learners who reason and seek to make connections	Catch Up® Numeracy sessions involve a learner explaining their numeracy steps – response and understanding
Aims for sustained progression over time	Catch Up® Numeracy is designed around building small steps into sustainable progression
Diagnostic pre-assessment to tease out misconceptions and gaps in prior knowledge	Catch Up® Numeracy Stage 1 Assessments are fundamental to identifying a learner’s strengths and needs
Link to prior learning continuously made to ensure all can access the new learning	Catch Up® Numeracy sessions always start with a review of the previous session – review and introduction
Carefully sequenced steps in progression to build secure understanding	Catch Up® Numeracy aims for learners to become secure in structured numeracy components, using gradually increasing number ranges and structured target levels
Two way interaction with learners including questioning, short tasks, explanation, demonstration, and discussion, enabling pupils to think, reason and apply their knowledge to solve problems	Catch Up® Numeracy uses an Explain-Model-Task / Verbalise or Describe approach built on 2-way communication
Use of precise mathematical language enables all pupils to communicate their reasoning and thinking effectively, both verbally and in written form	Catch Up® Numeracy encourages and develops the use of correct mathematical terms and requires learners to engage in both verbal and written forms
Key number facts are learnt to automaticity and other key facts are learned deeply and practised regularly, to avoid cognitive overload in working memory and enable pupils to focus on new learning	Catch Up® Numeracy specifically utilises practise of Remembered Facts and Derived Facts
Use of manipulatives and representations supports deeper understanding	Catch Up® Numeracy sessions always involve use of hand-on learning resources
Stresses the structure of mathematical concepts and emphasise connections, enabling pupils to develop a deep knowledge of mathematics.	Catch Up® Numeracy is built upon structured and inter-related components of numeracy to provide a solid foundation for applying maths knowledge
Procedural fluency (the ‘how’) and conceptual understanding (the ‘why’) are developed in tandem because each supports the development of the other, with practice being vital	Catch Up® Numeracy sessions strengthen the connection between ‘how’ and ‘why’ through discussion and explanation within the Explain-Model-Task approach
Create a maths learning environment that is enjoyable and purposeful	Catch Up® Numeracy focuses on fun engagement with a clear purpose to ‘close the gap’