

Maths Curriculum Rationale

At Thurcroft Junior Academy our mathematics curriculum is designed to maximise the development of every child's ability and academic achievement as we have an absolute belief that all children should be able to feel confident and succeed in mathematics. We deliver lessons in a creative and engaging way and continually build on previous learning. We want children to make rich connections across mathematical ideas building on from fluency to mathematical reasoning and problem solving.

INTENT		IMPLEMENTATION		IMPACT	
 Alignment to the NC	Thurcroft Junior Academy follows the National Curriculum which is mapped out through our long term plans. These plans are implemented to suit the needs of the children within our academy.	 Pedagogical Approaches	Arithmetic is at the heart of our approach to maths. Children are taught the skills needed to tackle reasoning and problem solving questions. Maths lessons follow a carefully designed structure that enables children to build on previous learning.	 Approach to Assessment	Regular assessment helps to inform future teaching and identify children who may need further intervention in order to 'keep up' with their peers. Moderation of learning and assessments takes place across the academy and trust wide to ensure an accuracy in data.
 End Points	We focus on a progression from concrete resources, to pictorial representations and finally into the numerical abstract to aid our children's conceptual understanding. The aim of this is for all of our children to leave Thurcroft Junior Academy as confident, competent mathematicians who have built resilience to tackle mathematical questions.	 Teachers' Expert Knowledge	Professional develop for all adults teaching and supporting the learning of maths is fundamental to supporting our children to achieve their very best. An Individualised and target CPD programme is in place and all adults have regular opportunities to observe best practice in teaching and learning.	 Performance Data	Ambitious targets are set for the end of Key Stage 2 using FFT 20 reference points. The most recent can be found on the academy website.
 Sequencing	Lesson are sequenced to build on prior learning and links and weaved throughout the different concepts to help children develop rich links within their mathematical knowledge.	 Promoting Discussion & Understanding	Mathematical talk is fundamental to success in maths and peer to peer support is actively encouraged. Children have regular opportunities to discuss and share their ideas and leaning which helps to consolidate and reinforce the use of mathematical vocabulary.	 Pupils' Work	Children are expected to take pride in the presentation of their maths learning by using a ruler for all lines, ensuring number formation is clear and using one square per number. We have high expectations for all learners.
 Addressing Social Disadvantage	At Thurcroft Junior Academy we have the firm belief that all children can be successful at maths no matter what their background. We support children in building confidence by become fluent in arithmetic skills in order that every child can engage with learning within the classroom. This is supported by targeted intervention when needed.	 Knowing More & Remembering More	Our curriculum long term plans have been carefully constructed to present the content in a logical progression. Children are given regular opportunities to recall, recap and build on prior learning.	 Pupil Voice	Pupil voice tells us that children enjoy math. The leadership team and math lead regularly talk to pupils as part of the monitoring and evaluation process. Information from pupil voice is fed back and any actions needed are identified and addressed within a timely manner.
 Local Context	Where possible we link maths to a real world context so that children can see and begin to value the study of mathematics.	 Teacher Assessment	Teacher assessment should take place regularly through the lesson in order that any misconceptions can be quickly identified and addressed. Summative assessment takes place termly to check children have a secure recall knowledge of key concepts and teaching. Our summative assessments take place on an online platform – Quest.	Key Links Maths Shed – www.mathsshed.com My Maths – www.mymaths.co.uk TTRS – www.ttrockstars.com National Curriculum - www.gov.uk/government/publications/national-curriculum-in-england-mathematics-programmes-of-study	