

Maths One Page Overview

Intent:

Our curriculum has been designed to ensure our young people thrive, achieve and flourish



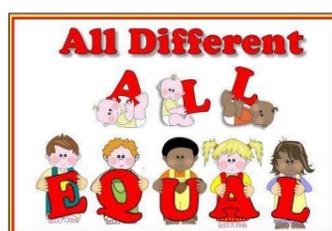
Children thrive -



Children achieve -



Children flourish -



A high-quality mathematics education provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

At Temple we aim to achieve this through an engaging, progressive curriculum. At its core is a commitment to a CPA approach (concrete, practical, abstract). We want our pupils to be competent, confident mathematicians – who can utilise their skills and knowledge during their school years and beyond.

Implement:

Coverage through curriculum:

- At OAT maths is taught via small, sequential steps, with a focus on mastery by deploying a concrete, pictorial, abstract (CPA) approach
- The academy is well-resourced in terms of maths equipment and this is monitored, reviewed and updated regularly by the maths lead
- All year groups follow the Maths Mastery Programme of study, which lays out the objectives to be taught – the order and depth
- Year R-3 follow the Maths Mastery program and utilise lesson plans, presentations and resources closely (teachers print and annotate MM plans, in order to personalise for their classes)
- Y4-6 utilise a range of resources to plan and deliver lessons – teachers have access to subscription services within school (Twinkl, Classroom Secrets, Headstart problems) and are encouraged to utilise high quality online resources provided by White Rose and NCETM
- Teaching and learning recognises the need for a balance of fluency, problem solving and reasoning
- Teachers and pupils utilise ICT to enhance and support learning, where appropriate. Department Ipad's have a number of maths apps available and these are reviewed and updated regularly.
- Assessment data is used to identify pupils for additional help/ small group interventions, though this has not been widely developed through the academy yet

Extra-curricular:

- Homework clubs target pupils
- KS1 and KS2 boosters
- Maths Battle
- Regular intra/inter school Sumdog competitions

Assessment:

- EYFS maths is assessed throughout the year by teacher assessment against the Maths statements for Number and Shape, Space and Measure in Development Matters. End of Reception GLD assessed through ELG statements in Development Matters
- Year 1 end of unit Maths Mastery assessments
- Year 2-6 termly Headstart tests in-line with Oasis policy
- Attainment of key maths facts is tracked across Y1-Y6

Monitoring:

- In EYFS (maths subject leader) alongside EYFS lead monitors indoor and outdoor continuous provision for maths learning opportunities through learning walks. Currently developing ways to monitor Maths teaching across EYFS
- Maths subject leader takes part in termly monitoring, either via year group development days or stand-alone maths monitoring (including book scrutiny, pupil voice and lesson observations) from Y1-6
- Most recent monitoring:
Strengths: Use of CPA approach, increased awareness of different mental maths strategies, attainment and recall of key maths facts, small sequential learning objectives (using pupils' starting points in light of school closures)
Targets: Provision for GD and SEND pupils in planning and lesson delivery

Impact:

Data (2018/19):

- EYFS GLD- Expected 57% Exceeding 2%
- KS1 SATs: Expected 54% Exceeding – 22%
- KS2 SATs: Expected -85% Exceeding - 25%

Teacher CPD/monitoring:

RQTs attending external NCETM CPD

SA (EYFS Maths Lead) attending external NCETM CPD

OAT is part of a teacher research group – focussed on teaching for mastery. Maths lead has regularly attended TRG meetings

Internal CPD led by maths lead 19/20 and 20/21:

- Introduction to Maths Mastery Progression in Calculations
- Mental Maths strategies – introduction to NCETM Spine resources
- School-wide approach to maths recovery curriculum

Community/families:

- Maths knowledge/skills are highly valued by our academy community and families
- Many pupils attend additional maths sessions at faith schools after school/at the weekends