

Aston Rowant C†E Primary School

WHAT MATHS LOOKS LIKE AT ASTON ROWANT

Growing together, rooted in God, having fullness of life.

Colossians 2:1-7



Vision: Aston Rowant community will be courageous life-long learners, who are rooted in God, living our Christian values and enjoying life in all its fullness.

Mission: Growing together and inspiring one another through our Christian values and a broad enriched curriculum.

G	GRATITUDE
R	RESILIENCE
O	OUTREACH
W	WONDER
T	TRUST
H	HARMONY

Grateful Our attitude to learning shows that we appreciate the breadth of opportunities that we have to learn inside and outside of the classroom with our resources and surroundings.

Resilient We cultivate a growth mindset from the perspective of building courage, encourage failure by modelling it and showing how to reframe events in a positive light, so children are willing to try new things whilst embracing failure and the opportunities it brings. Let the children learn to have control over their own actions, including trying again if they don't succeed.

Outreach Children will leave Aston Rowant C†E Primary School with an enthusiasm and thirst for learning that continues for the next stage of education and enables the children to live life to its fullness.

Wonder We generate curiosity and wonder about what we teach and allow it to take hold into something that becomes a passion for lifelong learning for all of our children. We openly involve them in their learning by meeting them where they are and then showing them where they can go exploring their interests, expanding upon their ideas, and engaging them in meaningful dialogue which encourages them to fully engage with owning and developing their own learning.

Trust We will develop our children into independent learners to empower them to take control of their own learning – both inside the classroom. Teachers trust that our pedagogical approach

Harmonious The whole school team will grow together, sharing our knowledge, understanding and experience. We will question, encourage and support one another on our learning journey.

WHAT MATHS LOOKS LIKE AT ASTON ROWANT FROM EYFS TO YEAR 6

EYFS

- Exploring number, pattern, shape and measure through play
- Outdoor maths investigations
- Early reasoning (“I notice...”, “I think...”)

KS1

- Growing fluency with number facts
- Equal groups, early multiplication, real-life contexts
- Practical, hands-on maths

Lower KS2

- Pattern investigations, puzzles, 3D shape building
- Leading younger peers through maths challenges

Upper KS2

- Technical drawings, measurement precision
- Applying maths to engineering-style tasks
- Mastering complex calculations

Across all year groups, pupils experience maths that is **practical, dynamic, creative and deeply connected to real life.**

Mathematics at Aston Rowant nurtures confident, thoughtful, collaborative and adventurous learners. Our pupils become mathematicians who work with gratitude, resilience, outreach, wonder, trust and harmony - prepared not only for the next stage of their education, but for a lifetime of problem-solving, curiosity and joyful learning.

GRATITUDE



Mathematics at Aston Rowant nurtures **gratitude** by helping pupils appreciate the beauty, structure and creativity of the subject.

Children learn to value:

- The resources and manipulatives that help them “see” mathematical ideas clearly
- Opportunities to explore maths in nature - counting flowers, measuring sticks, spotting patterns outdoors
- The joy of sharing ideas, solving problems together and learning from each other

From EYFS onward, pupils notice the mathematical richness of the world around them. When children say things like:



“Look, there are eight flowers!... I can see four and two and two, that makes eight!” - Matilda (EYFS)

it shows how naturally gratitude and curiosity emerge through meaningful, hands-on learning.

Pupils show gratitude by using resources responsibly, taking pride in their work, celebrating others’ achievements, and appreciating the real-life relevance of mathematics.

RESILIENCE



Mathematical resilience is central to our approach.

Children learn that:

- Mistakes help their brains grow
- There is more than one way to solve a problem
- Perseverance and curiosity matter more than speed

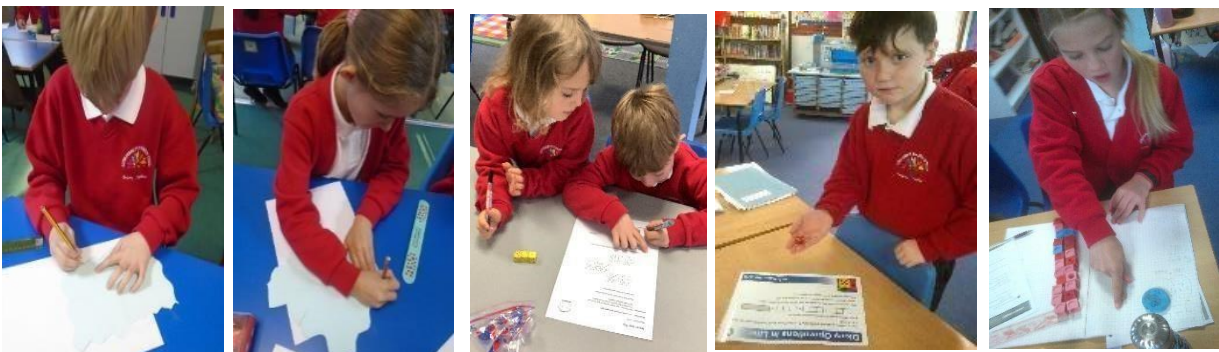
Across the school, pupils are encouraged to “have a go,” test ideas, and try again. Examples include:

- Year 1 & 2 children challenging themselves using *One is a Snail, Ten is a Crab* multiplication explorations
- KS2 pupils tackling challenging puzzles or engineering-style investigations
- Older pupils applying precision and discipline in scale drawing or blueprint tasks

Children describe this beautifully:

“We had to be exact - the measurements really mattered.” (Year 6)

Such experiences strengthen determination, confidence and independence — key ingredients of resilience.



OUTREACH

Mathematics helps pupils *reach out* beyond their own experience by understanding how maths shapes the wider world.

At Aston Rowant, outreach in maths includes:

- Financial education through HSBC workshops (budgeting, saving, real-life decision-making)
- Class-to-class leadership:
 - Year 3 & 4 pupils designing puzzles for younger pupils
 - KS2 running Maths Fair stalls for EYFS/KS1 (Hook-a-Duck, Shooting Stars, Crazy Golf)
- Whole-school charity events such as NSPCC Number Day, where pupils combine maths with advocacy and collaboration



Children begin to understand maths as a tool that empowers them to contribute positively to their community and the wider world.

“Helping younger children made us feel like maths leaders.” (Year 5)



WONDER



Mathematics at Aston Rowant is full of **wonder**, exploration and joyful discovery.

We ignite wonder through:

- Pattern-spotting in EYFS and KSI (repeating patterns, shapes, symmetry)
- Engineering and scientific investigations in KS2
- Real-life, practical tasks such as paper launcher testing, measuring bodies, building 3D shapes
- Enquiry questions: “What do you notice?” “What do you wonder?”
- Celebrations like Maths Week & World Maths Day filled with puzzles, challenges and problem-solving adventures

Children express wonder openly:

“Maths is art too!” (Year 4)

“Maths is everywhere - even at the fair!” (Year 2)

We want this wonder to stay with them for life.

TRUST



Mathematics builds **trust** - in themselves, in the process of learning, and in the reliability of mathematical methods.

We teach pupils to:

- Trust the CPA journey - using concrete → pictorial → abstract strategies until they are ready to move on confidently
- Trust their reasoning, using evidence and clear explanations
- Trust each other as partners in learning
- Trust the idea that perseverance pays off, even when maths feels challenging

Through consistent modelling and supportive dialogue, pupils grow to believe:

“I am a mathematician. I can do this.”

“Maths makes your brain think.” (Whole school feedback)

This confidence is essential preparation for KS3 and life beyond primary school.



HARMONY



Mathematics at Aston Rowant is a collaborative endeavour.

Pupils learn to work **harmoniously** by:

- Solving problems in pairs and groups
- Sharing and comparing strategies respectfully
- Constructing and evaluating mathematical arguments
- Building complex solutions together (e.g., models, fairground stalls, group data projects)

Harmony is visible when:

- EYFS children explore shapes and patterns together
- KSI pupils help each other with number challenges
- KS2 pupils support younger ones during Maths Week
- Groups collaborate on investigations, measuring, analysing and presenting findings

“We solved problems together.”

Harmony in maths strengthens dialogue, teamwork, empathy and shared success.

