

Aston Rowant C†E Primary School

WHAT IT 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 cultivates independent habits of mind in the children we teach and the children themselves trust their foundation and values to explore the truths of the world for themselves.

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.

RATIONALE

Computing – Curriculum Overview

Computing at Aston Rowant CE Primary School is an essential part of our broad and balanced curriculum. It equips pupils with the knowledge, skills and understanding needed to thrive in an increasingly digital world. Technology is embedded throughout school life, with pupils accessing a wide range of devices including laptops, iPads, programmable robots and other digital tools to enhance their learning.

Our curriculum is designed to ensure that all pupils become confident, responsible and creative digital citizens.

We use the Kapow Computing Scheme, which provides a carefully sequenced and ambitious curriculum across three key strands:

- Computer Science – coding, algorithms, logical thinking and robotics
- Information Technology – creating and using digital media and handling data
- Digital Literacy – using technology safely, respectfully and responsibly

Computing – Intent

The intent of the Computing curriculum at Aston Rowant is to ensure that all pupils:

- Develop computational thinking and problem-solving skills
- Become confident users of technology for a range of purposes
- Understand how technology works and how it shapes the world
- Use technology safely, responsibly and respectfully
- Create, evaluate and improve digital content
- Are well prepared for the next stage of education and life in a digital world

Computing supports pupils' wider development by promoting independence, creativity and critical thinking.

Computing – Implementation

Computing is taught through well-planned units that build knowledge and skills progressively across the school.

Across EYFS, KS1 and KS2, pupils experience:

- Programming using tools such as Bee-Bots, Scratch and Micro:bits
- Creating digital content including images, videos, presentations and animation
- Developing understanding of networks, the internet and data
- Learning how to stay safe online and make responsible choices

Pupils regularly use technology within lessons and across the wider curriculum to enhance learning and develop digital skills. Online safety is a golden thread, embedded in everyday teaching, assemblies, PSHE and whole-school events such as Safer Internet Day. Teachers provide clear modelling, opportunities for practice and challenge for all learners. Learning is inclusive and engaging, with scaffolding to support all pupils and deepen understanding.

What Computing Looks Like in the Classroom

In Computing lessons at Aston Rowant, you will see:

- Pupils confidently using a range of technology, including laptops, iPads and programmable devices
- Children explaining their thinking using subject-specific vocabulary such as *algorithm*, *debug*, *sequence* and *variable*
- Teachers modelling new skills clearly, followed by structured opportunities for pupils to practise and apply learning
- Pupils working both independently and collaboratively to solve problems
- Mistakes being positively welcomed as part of the learning process, particularly during coding tasks
- Online safety discussions happening naturally within lessons and across the curriculum
- High levels of engagement, with pupils motivated by creative and purposeful digital outcomes

Computing – Impact

As a result of the Computing curriculum at Aston Rowant, pupils:

- Develop secure knowledge and skills across all areas of computing
- Become confident, independent users of technology
- Show creativity in producing digital content
- Demonstrate understanding **of** online safety and digital responsibility
- Apply computational thinking to solve problems
- Are well-prepared for an increasingly digital future

Computing makes a strong contribution to pupils' personal development, equipping them with essential life skills.

GRATITUDE

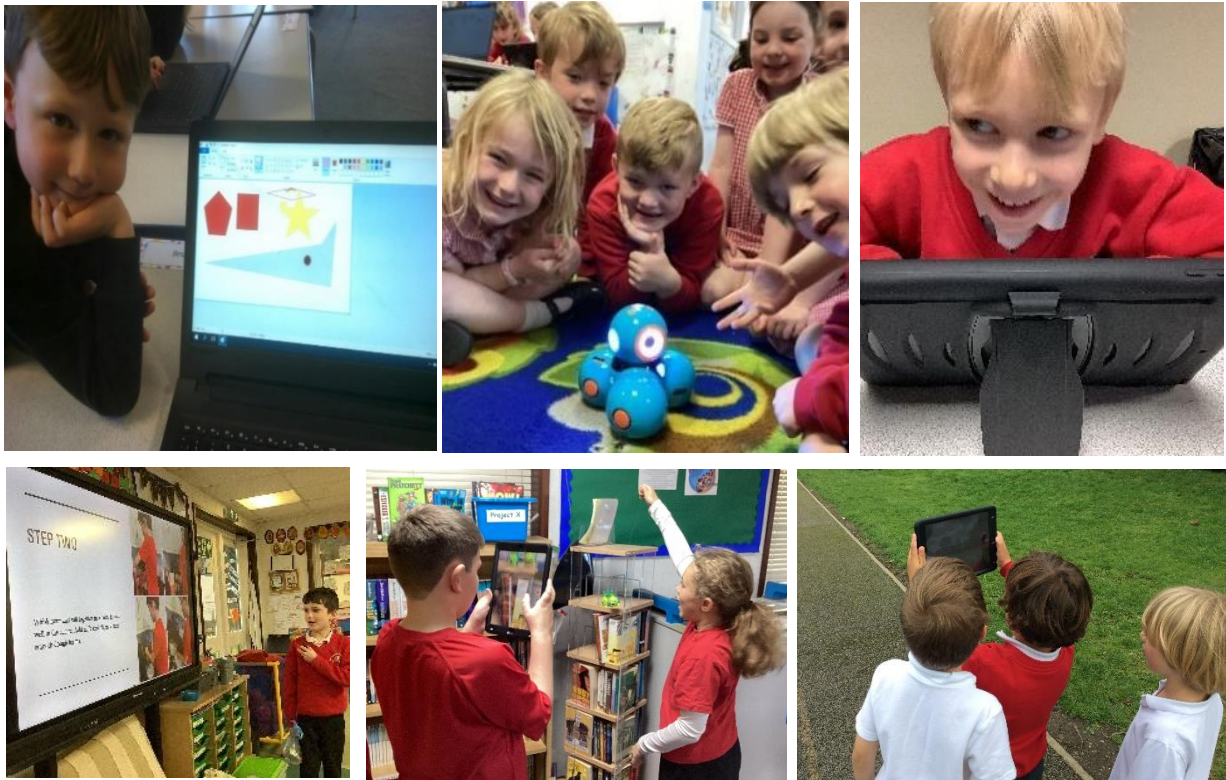
Computing at our school fosters Gratitude by helping pupils appreciate the role technology plays in their everyday lives and learning. Pupils recognise how digital tools support communication, creativity and problem-solving, both within school and in the wider world.

Through access to a wide range of devices and high-quality resources, pupils learn to value the opportunities they are given. They are taught to use equipment responsibly, understanding that technology is a shared resource that enables learning for all.

Pupils also develop an appreciation for the work of others, recognising the effort involved in creating digital content and understanding how technology has developed over time.

As a result, pupils demonstrate respect for technology, their learning environment and the opportunities available to them.

“We are lucky to use all the computers and iPads - it helps us learn in lots of different ways.” Billie, Year 2



RESILIENCE

Computing develops Resilience by encouraging pupils to persevere when solving problems and debugging programs. Pupils learn that mistakes are a natural and valuable part of the learning process, particularly when coding.

They are taught to test, refine and improve their work, developing determination and a growth mindset. Pupils are supported to approach challenges with confidence, trying different strategies when solutions are not immediately successful.

Whether programming robots, creating digital media or troubleshooting technical issues, pupils show sustained focus and adaptability.

As a result, pupils become confident learners who approach challenges positively, persevere through difficulty and take pride in overcoming obstacles.

“If it doesn’t work the first time, you just debug it and try again.” Bodie, Year 5



OUTREACH

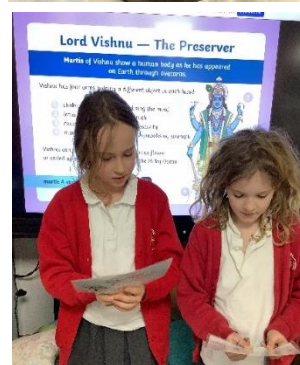
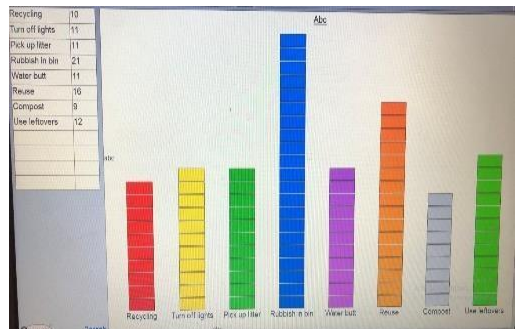
Computing supports Outreach by helping pupils understand how technology connects people, communities and cultures across the world. Pupils explore how digital tools are used to share ideas, collaborate and communicate beyond the classroom.

They are taught to use technology in ways that are respectful and responsible, understanding the impact their actions can have on others in online spaces. Pupils also learn how technology can be used positively to raise awareness, share messages and contribute to society.

Through this, pupils begin to understand their role as active digital citizens and how their choices online can influence others.

As a result, pupils develop a sense of responsibility and a growing awareness of how technology can be used to make a positive difference.

“You can use the internet to share good ideas and help people, not just for games.” Arthur Year 2



WONDER

Computing inspires Wonder by sparking curiosity about how technology works and how it can be used creatively. Pupils are encouraged to explore, question and experiment with digital tools and systems.

Through coding, robotics and digital media, pupils experience excitement as their ideas come to life. They explore how technology responds to commands, how digital content is created and how systems work behind the scenes.

Access to a range of devices and experiences encourages innovation and imagination, allowing pupils to see the possibilities of technology.

As a result, pupils develop enthusiasm for computing and a curiosity about the digital world, including future technologies.

“It’s amazing that you can make something on a computer and then it actually works!” Rory Year 4



HARMONY

Computing promotes Harmony through collaboration, teamwork and shared learning experiences. Pupils regularly work together to solve problems, share ideas and create digital content.

They learn to communicate clearly, listen to others and respect different viewpoints. Collaborative tasks, such as programming or digital projects, help pupils understand that working together often leads to stronger outcomes.

Pupils also learn about respectful behaviour online, ensuring that they contribute positively to digital communities.

As a result, pupils develop strong relationships, communication skills and an understanding of how to work effectively and respectfully with others.

“Working together helps because someone else might spot what went wrong.” Chloe Year 6

