

Aston Rowant C†E Primary School

WHAT DT 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

Art – Curriculum Overview

Design and Technology at Aston Rowant is a practical, purposeful subject that enables pupils to apply creativity, knowledge and skills to real-life problems. The curriculum is designed to be ambitious, inclusive and carefully sequenced, ensuring pupils develop technical understanding alongside problem-solving and critical thinking. Through engaging lessons and hands-on projects, pupils learn how products are designed, made and evaluated, gaining insight into the designed and manufactured world. Design and Technology plays a vital role in preparing pupils for future learning by fostering independence, resilience, collaboration and an understanding of how innovation can improve lives.

Design & Technology – Intent

The intent of the Design and Technology curriculum at Aston Rowant is to ensure that all pupils develop the **creative, technical and practical expertise** needed to design and make products that solve real and relevant problems.

Our curriculum is designed to:

- Develop pupils' ability to **design, make and evaluate** purposeful products
- Teach pupils to work with a range of **materials, tools and techniques**
- Build understanding of **structures, mechanisms, textiles, electrical systems and food technology**
- Encourage pupils to think critically, solve problems and refine ideas
- Promote awareness of **users, purpose and sustainability**

Design and Technology supports pupils' wider development by encouraging curiosity, resilience and responsibility, while preparing them with transferable skills for future learning and life.

Design & Technology – Implementation

Design and Technology is taught through carefully planned units that follow the **design–make–evaluate** process. Learning is progressive, ensuring pupils revisit and build on prior knowledge and skills.

Across the school, pupils:

- Design and construct **structures**, such as frameworks and bridges, using appropriate joins
- Explore **mechanisms**, including levers, sliders, wheels and axles
- Develop **textile skills**, such as joining fabrics using simple stitching techniques
- Learn **food technology**, including preparing healthy dishes, following recipes and understanding nutrition
- Apply **technical knowledge**, selecting tools and materials safely and accurately

Lessons are practical and engaging, with clear modelling, opportunities for experimentation and time for reflection and improvement. Pupils often work collaboratively, sharing ideas and evaluating outcomes together. Teachers ensure learning is inclusive, with scaffolding and challenge provided to enable all pupils to succeed.

Design & Technology – Impact

As a result of the Design and Technology curriculum at Aston Rowant, pupils:

- Develop **secure practical skills** and confidence in using tools and materials
- Show creativity and independence when designing and making products
- Demonstrate resilience by adapting designs and learning from mistakes
- Understand how products are designed for specific users and purposes
- Communicate ideas clearly through plans, models and evaluation

Pupils leave Aston Rowant with a strong foundation in design thinking, practical problem-solving and teamwork. Design and Technology makes a significant contribution to pupils' **personal development**, equipping them with the skills, confidence and mindset needed to engage positively with an ever-changing world.

GRATITUDE

Design and Technology at our school fosters Gratitude by helping pupils appreciate how everyday products are designed, made and improved. Through practical experiences, pupils develop an understanding of the skill, creativity and problem-solving involved in creating products that meet real needs.

Pupils explore a wide range of materials, tools and processes, including working with paper, card, wood, textiles and food. They learn to value the opportunities they have to design, make and evaluate their own products, recognising the effort and precision required to produce successful outcomes.

By studying existing products and designers, pupils gain an appreciation for how thoughtful design improves quality of life. Pupils demonstrate gratitude through pride in their work, care when using tools and materials, and respect for the design process.

As a result, pupils develop an appreciation for creativity, craftsmanship and purposeful design. Design and Technology supports pupils' personal development by fostering thankfulness for practical skills and the designed world around them.

RESILIENCE

Design and Technology develops Resilience by requiring pupils to persevere through the design process. Pupils learn that designing and making involves problem-solving, adapting ideas and learning from mistakes.

Pupils engage in the full design, make and evaluate cycle, creating products such as moving vehicles using axles and wheels, structures using frames and joins, textiles using stitching techniques, or food products following recipes and techniques. When designs do not work as planned, pupils are encouraged to refine and improve them.

DT lessons require sustained focus, accuracy and determination, particularly when measuring, cutting, joining or assembling components. Pupils develop resilience as they test ideas, respond to feedback and improve functionality.

As a result, pupils become confident and determined learners who persevere when challenges arise. Design and Technology supports pupils' personal development by building resilience, independence and problem-solving skills.

OUTREACH

Design and Technology supports Outreach by helping pupils understand how design responds to real-world needs and challenges. Pupils learn that products are created to solve problems for individuals, communities and wider society.

Pupils design with a purpose and user in mind, considering who a product is for and how it will be used. This may include designing shelters, containers, mechanisms or healthy food products. Through this process, pupils begin to understand how design impacts people's lives.

DT also encourages pupils to think about sustainability, materials and responsible choices. Pupils learn that good design considers the wider world and future impact.

As a result, pupils develop a sense of responsibility and an understanding of how design can contribute positively to society. Design and Technology supports pupils' personal development by encouraging engagement with the wider world and purposeful creativity.

WONDER

Design and Technology nurtures Wonder by sparking curiosity about how things work and how ideas become real products. Pupils are encouraged to ask questions, explore mechanisms and investigate materials.

DT lessons are engaging and practical, allowing pupils to explore structures, mechanisms, electrical components, textiles and food. Pupils investigate levers, sliders, wheels, axles and simple circuits, developing fascination with movement and function.

Pupils demonstrate Wonder through excitement when prototypes work, curiosity when testing designs and enthusiasm for exploring new materials and techniques. DT often inspires pupils to look more closely at the world around them and consider how products are made.

As a result, pupils develop curiosity, creativity and enthusiasm for learning. Design and Technology supports pupils' personal development by fostering wonder, enquiry and inventive thinking.

TRUST

Design and Technology supports the value of Trust by encouraging pupils to trust their ideas, decisions and practical skills. Pupils are supported to make choices about materials, tools and construction methods and to take responsibility for their work.

Teachers create a safe and supportive environment where pupils feel confident using tools appropriately and learning through trial and error. Pupils learn to trust the design process and to reflect honestly on what has worked well and what could be improved.

Pupils also learn to trust one another when working collaboratively, sharing tools, ideas and responsibilities during group tasks.

As a result, pupils become confident, reflective and independent learners. Design and Technology supports pupils' personal development by fostering self-belief, responsibility and trust in themselves and others..

HARMONIOUS

Design and Technology promotes Harmony through collaboration, teamwork and shared problem-solving. Pupils often work together to plan, design, make and evaluate products, learning to listen, compromise and respect different ideas.

Collaborative projects, such as designing and building structures or creating food products, encourage pupils to share roles and work towards common goals. Pupils learn that successful outcomes often rely on cooperation and clear communication.

DT lessons also encourage constructive feedback, helping pupils improve designs while maintaining positive relationships. Working together helps pupils appreciate different strengths and perspectives.

As a result, pupils demonstrate effective teamwork, respect and cooperation. Design and Technology contributes strongly to pupils' personal development by fostering harmony, collaboration and shared achievement.