

COMMITTED TO EXCELLENCE

Design & Technology at St James

"Technology is a word that describes something that doesn't work yet."
Douglas Adams





Our D&T Curriculum

The STEM agenda is at the heart of the curriculum at St James.

Our curriculum is supported by a range of high-quality resources designed by subject specialists that ensure that our children's education is at the forefront of technological advancements.





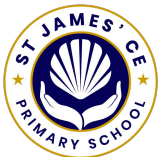
Our Vision

We are a school that is 'committed to excellence' and view the National Curriculum aims as just the starting point of what we would like our children to achieve during their time at St James.

By Year 6, our children will have

- ★ Developed a range of practical skills across a range of technological competencies
- ★ Foster links across Science, Art, Technology and Mathematics to solve real-life problems
- ★ The attitudes of an effective engineer; resilient, creative and reflective

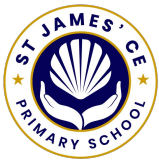




Our Enhanced D&T Curriculum

- STEM ambassadors
- RAF Fly to the Line competition
- Cross-curricular reading
- Visitors
- Outdoor workshops





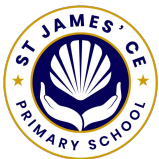
Progression

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Self-Portraits	Christmas Decorations	Building houses	Observational Drawing	Fairy Doors	Printing
Year 1	Exploring Line and Shape	Making a windmill	Paper Play	Puppets	Colour Splash	Making a Fruit and Vegetable Smoothie
Year 2	Understanding Tone and Texture	A Monarch's Throne	Life in Colour	Lever	Clay Houses	Pouches
Year 3	Eating Seasonally	Developing Drawing Skills	Wearable Technology	Ancient Egyptian Scrolls	Constructing a castle	Abstract shape and space
Year 4	Exploring Tone, Texture and Proportion	Pavilions	Light & Dark	Slingshot Cars	Fabric of Nature	Making a torch
Year 5	Doodlers	Interactive Installation	Gears and Pulleys	Depth, Emotion and Movement	Developing a recipe	Portraits
Year 6	Photography	Structures: Fly to the Line	Expressing Ideas	Playground Pioneers	Making Memories	Navigating the World

The Design & Technology curriculum has been designed and planned to enable pupils to develop a range of skills in small steps.

Our children have the opportunity to revisit these skills in different year groups in order to consolidate and extend their skills and understanding.





Assessment



Ongoing formative assessment monitors both the knowledge and skills that children are developing in their D&T lessons.

Annually, a summative judgement of children's achievement is made and tracked on Sonar and reported to parents.

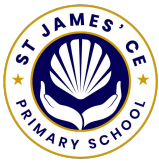




Planning

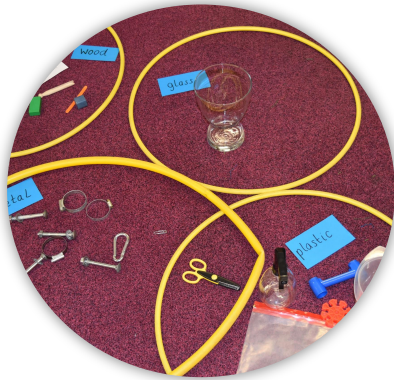
To ensure strong learning outcomes to meet the needs of all of our learners, our class teachers plan their D&T lessons using a range of specially-designed, peer-reviewed resources from Kapow! and the Learning Partnership. This is adapted to meet the needs of our learners, informed by teachers' assessments.





Inclusion

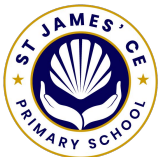
We believe that all children, including those identified as having a special educational need or a disability (SEND) have a common entitlement to a broad and balanced academic and social curriculum, which is accessible to them, and to be fully included in all aspects of school life.



We ensure that our D&T curriculum is inclusive through:

- Effective differentiation and scaffolding
- Concrete resources and hands-on activities
- Labelled resources
- Effective deployment of additional adults when necessary
- Supportive STEM working walls in each classroom





Monitoring

The STEM lead monitors the teaching and learning in D&T across the school.

This takes the form of:

- Lesson observations
- Drop-ins/learning walks
- Book and Scrapbook scrutinies
- Work scrutinies
- Pupil and staff voice



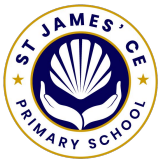


School Improvement

The monitoring undertaken serves to inform the organisation of training opportunities provided for staff to develop practise further.

This also informs the curriculum development plan which is written annually and is used to update the school's governors on the priorities for the advancement of STEM for the next academic year.





Development

All staff at St James are 'committed to excellence' and continually develop their practise to provide enriching, challenging learning experiences for our children.



Our subject lead keeps updated on the latest pedagogical developments by working with organisations such as:

- STEM Learning
- SEERIH/University of Manchester
- Kapow
- The Design and Technology Association

This is shared with staff to support their practise.

