Subject Design and Technology (DT)



Subject Lead: Kate Drake

Subject Intent:

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and wellbeing of the nation.

At St Columb Major Academy, we recognize that skills and learning gained through the teaching of design and technology could assist them in everyday life and inspire children to think about their future.

We will strive hard to meet the needs of those pupils with special educational needs, those with disabilities, those with special gifts and talent, and those learning English as an additional language (EAL), and we take all reasonable steps to achieve this.

Covid Catch-Up Plans

Providing time for children to investigate using different materials and tools when making their project.

Providing time to evaluate real life products and investigate these against criteria.

Modelling critical thinking and investigative language for pupils.

Transferable writing skills

Oracy: planned opportunities for speaking and listening within groupwork and direct teaching

Cross-curricular use of Maths skills, especially measurement and data handling

Subject specific lessons (within a topic-based approach)	Personalised Learning Differentiated learning to meet needs of learners Use of resources, models, images and word	Resources Audited and reviewed, staff made aware of any new resources (new resources bought and donated)	 Cultural Capital Investigations into real life items to develop wonder and critical thinking. Gaining a practical knowledge on 	Assessment Marking of learning. Class discussions at start and end of unit. KS2 – use of forms to gain understanding of knowledge.
Key vocabulary prioritised Knowledge organisers in place Sequences of teaching and learning built for each component (built on prior learning) Assessment through whole class ideas and questions at the start and end of each session.	banks. Focus on key specific skills if required for certain units of work.	DT association subscription – access to their resource shop.	different materials and applying this to the real world. - Gaining insight into food groups and cookery skills and healthy eating.	Formative assessments by all adults in all lessons to reframe learning (if required) KIRF questioning End of unit composite Teachers assess against NC objectives and skills/knowledge progression statements Verbal quizzes Marking of learning Pupil conferencing- know more, remember more.
Inclusion - SEND	Curriculum Scope and Progression	Working as an innovator.	Monitoring	Outcomes
Quality First Teaching Planned additional support from adults (and as required) High Quality Interventions Differentiated learning IEP Targets	Exceeds the requirement of the NC through: Component parts are sequenced to build on prior learning Disciplinary and Substantive knowledge mapped out across the school Reconnect lessons to fill any missed, rusty	Breadth of learning planned encompassing both disciplinary and substantive knowledge. Planned opportunities for cross-curricular links as appropriate.	Curriculum assessment grids. Book Looks Learning Walks Pupil Voice Intervention Tracking Sheets	To maintain and develop the confidence and ability for all children to solve technological problems. Children explore the following skills: Evaluating current products and thinking about how they want to produce their own product. Designing purposeful products for themselves, based on particular criteria.
SEND document – support pupils to access DT	or lost learning Wider curriculum links.			
Disadvantaged Pupils	Transition	CPD	Strengths	Next Steps
Quality First Teaching Planned additional support from adults (and as required)	Information and data sharing with class teachers. Links with secondary school to share information	DT Leaders – meetings with Kernow Learning DT leads Staff training – January 2021	Well resourced. Staff understanding of the subject has improved.	Provide further CPD to staff sharing ideas and good practice. Further CPD for staff to think about planning

Standards and interventions tracked termly	Links with secondary school to offer	Training completed February 2022– Re-	Progression of learning throughout school	CPD for staff to think about becoming
by SLT and PP Lead	transition days for DT.	designing DT curriculum. Provided by DT	updated and being followed.	innovators rather than re-creating (including
Planned interventions as required		association.		extra session to practically make an updated
				model using own evaluation).
				Science and DT whole school topic
				day/challenge day, learning about real life
				professions.
				Invite visitors linked with each topic, 1 per
				year group.
				STEM/investigating/innovating club.
				Food Hygiene and Safety qualification.