

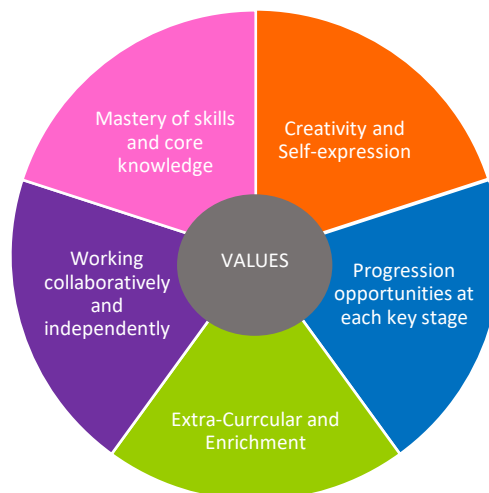
Intent, Implementation and Impact – Technology Department

INTENT

Our Design & Technology curriculum nurtures creativity, critical thinking, and practical skills in students via differentiated and self-directed work in an engaging and supportive environment. It emphasises the design process, whilst developing technical skills across a range of materials, processes, and technologies, and promotes communication abilities and industry awareness. Students learn to think innovatively to develop unique design concepts and apply them to their work through hands-on experience. They gain knowledge of design principles, sustainability, and the societal impact of technology. The curriculum also focuses on problem-solving, teamwork, and safety in design environments, preparing students for future careers in the field.

IMPLEMENTATION

Through mastery we have designed an inclusive programme of study that considers the changing needs of the students. This is delivered via suitable projects at Key Stage 3 which cover the breadth of knowledge that students will need to form a solid foundation for further study at Key Stage 4. Implementing the Art & Design: 3D Design curriculum at Key Stage 3 involves introducing foundational concepts and skills. Students are exposed to design thinking, problem-solving, and working with different materials and tools. They engage in design and make projects, gaining hands-on experience in researching, sketching, prototyping, and evaluating designs. They also learn about materials, technological processes, and critical analysis of products. The subject is accessible at Key Stage 4 and guidance is offered from members of staff regarding the suitability of the course. The mastery curriculum works on the principle that all learners, with time & effort, will meet expectations and we have carefully constructed a curriculum, throughout the time available in Key Stage 3, which allows steady progression for Mastery and builds knowledge that is relevant to GCSE.



IMPACT

We aim to ensure that the implementation of the Design & Technology curriculum positively impacts all students as it develops their practical skills, fosters interdisciplinary learning, boosts confidence, and prepares them for future endeavours within the subject. Through hands-on projects and real-world applications, students enhance their critical thinking, problem-solving, and creative abilities while gaining a strong foundation in design principles and materials. The cross-curricular links and integration of other STEM subjects promotes a holistic understanding of Design & Technology, while the acquisition of essential skills equips students for success in their academic and professional lives. Working in a collaborative peer-learning environment, students develop creative, problem-solving skills, allowing self-expression of ideas. It is important that students at Brixham College enjoy Design and Technology so that they are well-motivated, successful learners who achieve their goals and ambitions.