

## **Buckler's Mead Academy**

### **Design and Technology - Subject Information**

Within Design and Technology, we offer an outstanding curriculum which encourages our pupils to become 'designers of tomorrow'. We seek to ensure all of our pupils are well equipped with powerful knowledge that they will require during their life in the 21st century and an ever increasing technological world. By studying design and technology, pupils are given the opportunity to explore the world, understand humanity, to gain global knowledge and a glimpse into history. Just like professional designers, pupils are encouraged to undertake an innovative and iterative approach to their outcomes, to be adaptable and to take creative risk. We are seeking to develop critical thinkers who build confidence to solve problems and who are not afraid to reflect, seek constructive feedback or ask questions to further their development. To be successful in design and technology, attention to detail is vital and pupils will be expected to create high quality outcomes which are precise and accurate at all times, demonstrating the importance of good presentation and taking pride in one's work.

We have 'Golden Threads' running throughout the curriculum, which encompasses the core values of the subject and will stand our pupils in good stead for their future lives as a consumer, but above all, as a moral member of our society. These threads which are developed and built upon over the three years within KS3 include: Health & Safety, Sustainability and Ethics, Principles of Design, Drawing Skills, Computer Aided Design and Manufacture (CAD/CAM) and Materiality.

Upon completion of their design and technology course here at Buckler's Mead Academy, our students will have a greater sense of being human. We hope that they understand the philosophies of user-centred design and user-experience design and are able to talk confidently to other humans to understand their needs and wants. Our students should be able to respond to this and to resolve problems. They should be able to think critically within different contexts and participate in solution-focussed discourse.

As a consumer, students should understand the human footprint on the world and be able to make educated choices. They should be able to consider dilemmas from a moral and ethical viewpoint. They should be able to sketch ideas creatively, using a number of different angles and perspectives. They should be able to draw to scale and create with precision and accuracy. They should understand the purpose of quality control and be able to recognise this, both within their own work and that of others. They should be able to justify their decisions and articulate their thoughts with confidence, defending that which they firmly believe in. They should be able to work collaboratively with others, to be flexible in team building situations and to be able to take the lead when necessary to ensure the job gets done. Finally, they should be able to manage their time effectively and work to deadlines sufficiently. They should be able to listen to feedback and to act upon this feedback objectively. They are able to persevere when things go wrong and demonstrate a growth mindset. They are always curious to find out more.