Curriculum Intent, Implementation and Impact 2020-21

Subject: Design and Technology KS3.

Year group:8

Periods per fortnight: 3

Intent:

Vision

Engagement, Resilience, Success.

Mission Statement

In the Buckingham School Design and Technology Department, our vision is to give Year 8 students a broad range of design and practical skills. We have created a varied range of current Design and Technology threads for the students to take part in. This engaging curriculum is underpinned with exciting and engaging lessons that will really help students engage with their learning, through the various new learning experiences, that they will cover in Design and Technology.

We will encourage the students to develop and demonstrate their resilience, as they progress through a carousel of various Design and Technology Threads in KS3. They will develop an understanding of the design process, then finish with the creation of their ideas into practical working pieces.

The students will also be praised and rewarded as they progress through their learning, with positive and constructive feedback, on each coursework element they complete on their journey to success.

In Year 8 our students will cover the following Design and Technology threads:

- Technical drawing and Woodwork.
- Food Technology.
- Iterative design Light project and CAD.
- Textiles.

Each Year 8 student will complete three of the following threads throughout the academic year. These Schemes of learning will be taught using a range of different techniques, including practical and written elements.

The Design & Technology Department will ensure that the School Virtues will be embedded into our schemes of learning.

 Resilience – This will be a cornerstone of our teaching, as we will encourage our Year 8 students to research and discover exciting and new developments and practices within each of the threads. Students will be encouraged to create their own research models and product design with guidance from the teacher, to make mistakes and adapt from them as they then put their ideas into the manufacturing of their final piece.

- Curiosity Students will be asked to develop a range of research methods and use a variety of new Design and Technology skills. Some students will have no previous or limited experience of Design and Technology from KS2. Their curiosity will be expanded as we will ensure that they have a wide range of questions to ask and perspectives to think about over various Threads.
- Ambition To strive to develop their design Process skills in each of the
 Design and Technology Threads. They will be guided throughout with
 exemplar work; the students will be given constructive feedback throughout as
 they put these ideas into practise of making their final pieces. Students will
 also be shown and encouraged to study exemplar pieces in the real world,
 enabling the students to attain the skillsets to access the KS4 curriculum.
- Confidence Students will develop confidence, through Peer formative feedback sessions within the class. They will also have to present their final designs to the fellow classmates at the end of the course work unit.
- Respect Students will be taught to be respectful of each other and of their practical environment. They will learn about the safety rules and regulations associated with a Working Kitchen and Work shop. They will learn to value other opinions and designs through formative Peer feedback.
- Empathy Students will be asked to develop Empathy when exploring the
 design process and manufacturing of their final pieces. From sustainable
 resources to manufacturing practices in LEDC's, they will develop a more
 Empathetic approach to how and why products are made.
- Integrity Students will be taught the importance of Health and Safety standards within a Working Kitchen and Workshop. They will be encouraged to develop their understanding of rules and principles throughout the design and manufacturing process.

IMPLEMENTATION:

Term	Topics studied	Extended learning opportunities.	How parents could support students
Each Year 8 group will study one of the various threads over a termly carousel.	Each Year 8 student will have a Design and Technology folder that contains 3 booklets, one for each of the Design & Technology Threads they will study over the course of the academic year. Each Thread will have a summative assessment at the end of each Term. These will either be a written assessment or an assessment of their final piece. This will give an overall progress summary of each student throughout the year across Design and Technology.	Homework will be issued regularly via Google Classroom. Homework will take the form of research and analysis tasks, that will support the various skill sets within the Threads and will be set on Google classroom. Students will be asked to complete worksheets and additional revision tasks for any end of thread written assessments.	 Parents will be able to support your child, by ensuring all homework tasks are completed on time. Ensuring all students have access to Google Homework. Encourage and incentivise their children to use complete the other websites used, linked through the Google Homework.

Textiles. Parents will be able to support your child, 9-12 Weeks. Students will have to by ensuring all research varied sewing homework tasks are Stenciling, design. techniques. completed on time. Ensuring all students Accurate measuring. Also research various have access to Popup Mechanisms that Google Homework. are used currently in Encourage and Designing to make in a mainstream publishing. incentivise their product. children to use Analysis and formative complete the other Use a sewing machine feedback on their design websites used, linked safely. through the Google process and creation of working model. Homework. Use specialist equipment. Summative assessment of their final piece. Technical drawing and Woodwork. Parents will be able Time: 9-12 weeks to support your child, by ensuring all Homework will be issued regularly Design brief and ideas homework tasks are via Google Classroom. development. completed on time. Technical drawing Homework will take the form of **Ensuring all students** techniques. research and analysis tasks, that have access to Basic wood work and will support the various skill sets carpentry skills. Google Homework. within the Threads and will be set Final design and **Encourage and** on Google classroom. manufacture of product. incentivise their Evaluation of final design Students will be asked to children to use and sustainability research. complete worksheets and complete the other additional revision tasks for any websites used, linked end of thread written through the Google There will be a summative assessments. Homework. assessment at the end of this topic to gauge student attainment and progress. Homework and ingredient lists will Parents will be able be issued regularly via Google Food Technology. to support your child, Time: 9-12 weeks. Classroom. by ensuring all homework tasks are Year 8 students will take part in Homework will take the form of understanding where food comes research and analysis tasks, that completed on time. from, how to cook a range of will support the various skill sets Ensuring all students dishes safely and hygienically and within the Threads and will be set have access to to apply their knowledge of healthy on Google classroom. Google Homework. eating. Students will be asked to Encourage and complete worksheets and Students will have the incentivise their additional revision tasks for any opportunity to work through children to use the following contexts: end of thread written complete the other Domestic and local (home assessments. websites used, linked

through the Google

Parents will be asked to support their

Homework.

and health);

agriculture).

Industrial (food and

	ı

IMPACT:

By the end of the Year 8, students will have developed their knowledge of another three Threads of Design and Technology. This will be evident in the classroom folders, classroom booklets and also any practical pieces that they will make. This highly engaging and varied curriculum will teach them life skills, also it will provide them with a more in-depth learning experience, needed to continue on a pathway in KS4 Design and Technology.

The Seven School Virtues will be evident within the engaging Schemes of Learning and in each of their lessons. The student's will have developed and built up resilience though out the year, by regularly challenging themselves both in and out of the classroom, to further their enquiry about the subject content. They will also have shown a passion for their subject and have demonstrated their success in the summartive assessments throughout the year.