

Curriculum Intent, Implementation and Impact

Subject: Pearsons. BTEC Level 1/ 2 Level First Award, Construction and the Built Environment (Edexcel).

Year group:10

Periods per fortnight: 5

Intent:

Vision

Engagement, Resilience, Success.

Mission Statement

In the Buckingham School Design and Technology Department, our vision is one that we will teach lessons that will really help students engage with their learning through fun and exciting schemes of learning. We will encourage the students to develop and demonstrate their resilience, as they progress through the units of work in Year 10.

Students will be asked to take charge of their own research and learning within the classroom, as they start to develop their BTEC coursework folders and complete their practical elements of the course.

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.

The students will then be well prepared for any career path they may choose in the construction industry.

In Year 10 our students will now refine and develop aspects of Carpentry, Construction Technology and Scientific and Mathematical Applications for Construction. The lessons 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 10 students to research and discover exciting and new developments and practices within the Construction Industry. Students will be encouraged to create their own research models with guidance from the teacher, to make mistakes and adapt from them as they follow the Units.
- Curiosity – Students will be asked to develop a range of research methods and use a variety of new Carpentry skills. This coupled with using different forms of media to develop their house designs, will ensure that they have a wide range of questions to ask and perspectives to think about over the course of the units. They will be introduced to the beginner elements of the course Units.
- Ambition - To strive to develop their Carpentry skills in the woodwork element

of the course. They will be guided with exemplary work; the students will be given constructive feedback throughout the making of their final piece. Students will also be shown and encouraged to study exemplar pieces in the real world, enabling the students to attain future pathways within the Construction industry.

- Confidence - Students will develop confidence, through Peer formative feedback sessions within the class. They will also have to present their house 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 the Construction industry. They will learn to value other opinions and designs through formative Peer feedback.
- Empathy – Students will be asked to develop Empathy when exploring the materials and processes of different countries in the Construction industry. From sustainable resources to Construction practice's in LEDC's, they will develop a more Empathetic approach to how and why buildings are made.
- Integrity – Students will be taught the importance of Health and Safety standards within Construction. They will be encouraged to develop their understanding of rules and Building regulations, they will also learn about the importance of fair social housing and building standards.

IMPLEMENTATION:

Term	Topics studied	Extended learning opportunities.	How parents could support students
Autumn Term	<p><u>Unit 1. Construction Technology.</u></p> <p>Summative assessment at end of 1st Term, covering the topics covered in Unit 1.</p> <p>Understand and develop content knowledge of building methods, performance requirements within Building Technology.</p> <p>Exam questions and past paper analysis.</p>	<p>This unit will form the basis of their mock exam at the end of the Year.</p> <p>This will be formally marked and a grade of 25% given to the student's.</p> <p>All work will be placed in the Google classroom and there are revision Cards, guides and exam questions. This Flipped learning will enable the students to study throughout the academic Year. This will also allow the</p>	<ul style="list-style-type: none"> ● Ensuring all students have access to Google Homework. ● Encourage and incentivise their children to use other websites, linked through the Google Homework. ● Ensure that all students have completed all exam questions on Google classroom.
Spring Term	<p><u>Unit 3 Construction and Design.</u></p> <p>Construction and Design.</p>	<p>Homework will be issued regularly via Google Classroom.</p> <p>The students will have to complete and tick off elements of each unit as they go.</p>	<ul style="list-style-type: none"> ● Parents will be able to support your child, by ensuring all coursework tasks are

	<p>Assessment will be a summative appraisal of their House designs and ticked off the Edexcel website.</p> <p>Students will develop design ideas and cover advanced Technical Drawing skills.</p> <p>Practical model is worth 25% of the overall grade.</p>	<p>These will be summatively assessed and constructive feedback will be given.</p> <p>The course work research sheets to be accessed within Google classroom.</p> <p>Students will be asked to complete worksheets and additional revision tasks.</p>	<p>completed within deadlines set.</p> <ul style="list-style-type: none"> ● Ensuring all students have access to Google Homework. ● Encourage and incentivise their children to complete the other websites used, linked through the Google Homework.
Spring Term	<p><u>Unit 3 Construction and Design.</u></p> <p>Construction and Design.</p> <p>Assessment will be a summative appraisal of their House designs and ticked off the Edexcel website.</p> <p>Students will develop design ideas and cover advanced Technical Drawing skills.</p> <p>Practical model is worth 25% of overall grade.</p>	<p>Homework will be issued regularly via Google Classroom.</p> <p>Homework will take the form of research tasks that will support the Carpentry skills within the Google classroom.</p> <p>Students will be asked to complete worksheets and additional revision tasks.</p>	<ul style="list-style-type: none"> ● Parents will be able to support your child, by ensuring all coursework tasks are completed within deadlines set. ● Ensuring all students have access to Google Homework. ● Encourage and incentivise their children to use the other websites, linked through the Google Homework.
Summer Term	<p><u>Unit 5 Exploring Carpentry and Joinery Principles and Techniques.</u></p> <p>Assessment will be a summative appraisal of their ongoing Carpentry frame practice. Workshop health and safety.</p> <p>Identifying risks and hazards.</p> <p>Tools and materials of Joinery and Carpentry.</p> <p>Marking out a timber frame.</p> <p>Control measures.</p> <p>Timber joints.</p> <p>Construction of Timber frame.</p> <p>Practical cutting out of Joints.</p>	<p>This unit will form the basis of their practical section of the course and be graded.</p> <p>This will be formally marked and a grade of 25% given to the student's.</p>	<ul style="list-style-type: none"> ● Ensuring all students have access to Google Homework. ● Encourage and incentivise their children to use other websites, linked through the Google Homework.

IMPACT:

By the end of the academic Year, students will have developed a good start by creating their Unit folders. They will expand on their knowledge of the various

Threads within the Construction industry, being also now able to demonstrate good technical drawing skills. This will be evident in the course work folders, classroom books and also their practice Carpentry pieces.

The Seven School Virtues will be evident within the engaging Schemes of Learning and in their Construction lessons. The student's will have developed and built up resilience throughout Year 10, by regularly challenging themselves both in and out of the classroom, to further their enquiry about the subject content. This will enable them to access in more detail, the Various units that will be completed in Year 11. They will also have shown a passion for their subject and have demonstrated their success in the summative assessments throughout the year.