

## Curriculum Intent, Implementation and Impact

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

Year group:11

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 11.

Students will be asked to take charge of their own research and learning within the classroom, as they 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 11 our students will cover 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 11 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.
- 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 2. Scientific and Mathematical Applications for Construction.</u></p> <ul style="list-style-type: none"> <li>● Students will learn different Mathematical skills in determining specification and grading of materials used in the construction industry.</li> <li>● Calculator skills and Mathematical application.</li> </ul> <p><u>Unit 1. Construction Technology.</u></p> <p>Mock examinations at the end of 1<sup>st</sup> 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>Homework will be issued regularly via Google Classroom.</p> <p>Homework will take the form of research tasks that will support the Calculator 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"> <li>● Parents will be able to support your child, by ensuring all coursework tasks are completed within deadlines set.</li> <li>● Ensuring all students have access to Google Homework.</li> <li>● Encourage and incentivise their children to complete the other websites used, linked through the Google Homework.</li> <li>● Parents will be asked to ensure that students are attending all extra revision sessions and have completed and adhere to a revision timetable, linked to Unit 1.</li> </ul>

<p>Spring Term</p>	<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 the overall grade.</p> <p><u>Unit 1.</u> <u>Construction Technology.</u></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>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> <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>Students will have to complete all course work and have it handed in before February half Term.</p>	<ul style="list-style-type: none"> <li>● Parents will be able to support your child, by ensuring all coursework tasks are completed within deadlines set.</li> <li>● Ensuring all students have access to Google Homework.</li> <li>● Encourage and incentivise their children to complete the other websites used, linked through the Google Homework.</li> </ul>
<p>Summer Term</p>	<p><u>Unit 1.</u> <u>Construction Technology.</u></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 final exam at the end of the Year.</p> <p>This will be formally marked and a grade of 50% given to the student's.</p>	<ul style="list-style-type: none"> <li>● Ensuring all students have access to Google Homework.</li> <li>● Encourage and incentivise their children to complete the other websites used, linked through the Google Homework.</li> <li>● Parents will be asked to ensure that students are attending all extra revision sessions and have completed and adhere to a revision timetable, linked to Unit 1.</li> </ul>

**IMPACT:**

By the end of the academic Year, students will have developed a robust knowledge of the various Threads within the Construction industry. This will be evident in the course work folders, classroom books and also their practical Carpentry pieces.

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