

# Design Technology Year 10

## Learning Intentions Summer Term 2

2024-2025

|                                     | LESSON 1   | LESSON 2   | LESSON 3   |
|-------------------------------------|--|--|--|
| WEEK 33<br>wc 2 <sup>nd</sup> June  | Students should be able to: <ul style="list-style-type: none"> <li>Select and use materials appropriate to a specific task</li> <li>Understand how functionality, availability and cost affect the selection of materials</li> </ul>   | Students should be able to: <ul style="list-style-type: none"> <li>Understand the use of tolerances</li> <li>Explain how materials are formed to tolerances</li> <li>Describe why tolerances are applied during making activities</li> </ul>   | <b>NEA Preparation work</b><br>Students should begin to investigate two of the three themes presented by AQA.  |
| WEEK 34<br>wc 9 <sup>th</sup> June  | Students should be able to: <ul style="list-style-type: none"> <li>Understand how effective design can minimise waste</li> <li>Explain how the use of tessellation can save time and materials</li> <li>Describe how to calculate the surface area and quantity of required materials</li> </ul> | Students should be able to: <ul style="list-style-type: none"> <li>Explain the value of accurate measuring and marking to create quality prototypes</li> <li>Understand the use of datum points and coordinates</li> <li>Describe appropriate measuring and marking tools needed to create prototypes</li> </ul>                               |  |
| WEEK 35<br>wc 16 <sup>th</sup> June | <b>Yr10 PAZ - Exam preparation session.</b><br>Understanding and recalling knowledge related to the multiple-choice section of the exam paper - <i>Materials and their working properties</i>  | <b>Yr10 PAZ - Exam preparation session.</b><br>Understanding and recalling knowledge related to the multiple-choice section of the exam paper – <i>Energy, Materials systems and devices</i>   | <b>Yr10 PAZ - Exam preparation session.</b><br>Understanding and recalling knowledge related to the multiple-choice section of the exam paper – <i>New and emerging technologies</i> |
| WEEK 36<br>wc 23 <sup>rd</sup> June | <b>Yr10 PAZ - Exam preparation session.</b><br>Students should understand and describe how to use exam techniques such as: <ul style="list-style-type: none"> <li>Appropriate time allocation so that all questions can be answered in the time given</li> </ul>                                 | <b>Yr10 PAZ - Exam preparation session.</b><br>Students should: <ul style="list-style-type: none"> <li>Develop familiarity with the different sections of the question paper and be aware of the differing requirements of each section.</li> <li>Be aware of the specific requirements related to the mathematics questions in the</li> </ul> |  |

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|-------------------------------------|--|--|---|
|                                     | <ul style="list-style-type: none"> <li>The effective presentation and organisation of answers so that they are clear and easy to read</li> </ul>   | exam paper i.e. rounding up and down / decimal places / specifying units / the importance of showing your working out  |   |
| WEEK 37<br>wc 30 <sup>th</sup> June | Yr 10 DT Paz examination   | Students should be able to: <ul style="list-style-type: none"> <li>Select and use appropriate tools, equipment, techniques and processes</li> <li>Show awareness of relevant health and safety issues when using tools, equipment, techniques and processes</li> </ul> | Students should be able to: <ul style="list-style-type: none"> <li>Know and understand that surface treatments and finishes are applied for functional and aesthetic processes</li> <li>Explain how to prepare different surfaces for treatments or finishes</li> <li>Describe how surface treatments and finishes are used on different materials</li> </ul> |
| WEEK 38<br>wc 7 <sup>th</sup> July  | <b>NEA Preparation work</b><br>Students should conclude their research of two of the three themes presented by AQA.  | <b>Practical project work</b><br>Students will begin a practical investigation of appropriate finishing techniques on wood products including: <ul style="list-style-type: none"> <li>Painting / staining / waxing and varnishing.</li> </ul>                          |   |
| WEEK 39<br>wc 14 <sup>th</sup> July | <b>Practical project work</b><br>Students will begin a practical investigation of appropriate finishing techniques on metal products including: <ul style="list-style-type: none"> <li>Oiling / lacquering / painting and galvanising</li> </ul> | <b>Practical project work</b><br>Students will begin a practical investigation of appropriate finishing techniques on polymer products including: <ul style="list-style-type: none"> <li>Painting / edge finishing / graphics</li> </ul>                               | <b>Practical project work</b><br>Students will finish their practical investigation by appropriately finishing a small product in the material of their choice.   |