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|  | **LONG TERM CURRICULUM PLAN : KS3 & KS4** | **Subject: ICT** |

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 7** | **Technical drawing skills**  **Concept & Skills**  Basic drawing skills and techniques - **One and Two point perspective**.  To develop the creative, technical and practical skills needed to perform everyday tasks confidently. | **The key ring project**  **Concept**  Understand the design process for the key ring.  Understand how CAD/CAM, 2D design and the laser cutter is used to make products.  **Skills**  To use the design process successfully to design a key ring.  Be able to use knowledge, skill and understanding to produce a design on 2D design CAD/CAM | Workshop tools - health and  safety  Concept  Health and safety within the  workshop Developing  knowledge on how to use a range of tools  Skills  Complete a series of tasks to  show understanding of a range  of workshop tools, this will  include: different joint cuts and  cutting out initials | Wooden Crane project  Concept  Designing a wooden toy crane  using the design process.  How are mechanical systems  used to enable movement and  force?  Skills  Use a range of tools and  equipment to make the  wooden crane | How are products decorated  with textiles?  Concept & Skills  How are fabrics decorated?  How do different cultures use  textile techniques past and  present  Skills  Produce a range of Basic fabric  enhancements - Tie dye,  applique, Batik, decorative  stitches. | Design and make task in Textiles  Concept  Use the design process to design a  fabric bird using felt  Pupils make a bird using felt or  fabric.  Skills  Pupils will produce a fabric board  using basic stitching, applique and  embroidery. |
| Year 7 Overview  Students will build upon basic drawing skills from KS2.  Students will understand and develop their knowledge on basic drawing skills: including One and Two point perspective drawing.  Students will use their knowledge of the design process to produce a key ring using a range of specialist equipment and software including: CAD/CAM, 2D design and the laser cutter.  Students will develop their knowledge of health and safety within the workshop and how to use a range of tools safely and correctly including: the coping saw, Tenon saw, chisel, bench hook. Students will use their knowledge and skills to make a wooden toy crane.  Students will use cross-curricular links with maths for measurements.  Students will learn the basic textile enhancements and develop their skills by producing a range, including: batik, applique, tie dye, decorative stitches including a range of different embroidery stitches.  Students will use their skills from Autumn 02 to Summer 01 to design and make a fabric bird using a range of fabric enhancements. | | | | | | |

*Long Term Curriculum Plan – Design Technology (January 2021)*