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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 andsafetyConceptHealth and safety within theworkshop Developingknowledge on how to use a range of toolsSkillsComplete a series of tasks toshow understanding of a rangeof workshop tools, this willinclude: different joint cuts andcutting out initials | Wooden Crane projectConceptDesigning a wooden toy craneusing the design process.How are mechanical systemsused to enable movement andforce?SkillsUse a range of tools andequipment to make thewooden crane | How are products decoratedwith textiles?Concept & SkillsHow are fabrics decorated?How do different cultures usetextile techniques past andpresentSkillsProduce a range of Basic fabricenhancements - Tie dye,applique, Batik, decorativestitches. | Design and make task in TextilesConceptUse the design process to design afabric bird using feltPupils make a bird using felt orfabric.SkillsPupils will produce a fabric boardusing basic stitching, applique andembroidery. |
| Year 7 OverviewStudents 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)*