**Knowledge and Skills Map – D.T – Developing, Planning and Communicating Ideas**



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|  | **Knowledge** | **Units** | **Subject Aspects** |
| **EYFS** | * Can they begin to identify the key features of an existing product? * Can they begin think of some ideas on their own? * Can they begin to plan an outcome through pictures with labels? * Can they begin to explain their ideas orally? | All units | All units |
| **Year 1** | * Can they identify the key features of an existing product? * Can they think of some ideas on their own? * Can they plan an outcome through pictures with labels? * Can they explain their ideas orally? | All units | All units |
| **Year 2** | * Can they generate ideas through comparing existing products? * Can they create an innovative product? * Can they choose the most appropriate tools and materials and explain their choices? * Can they describe their design by using pictures, diagrams and words? | All units | All units |
| **Year 3** | * Can they plan their design using accurate diagrams and information? * Can they plan the equipment/tools needed and give reasons why? * Can they start to order the main stages of making their product? * Can they identify a design criterion and establish a purpose/audience for their product? * How realistic are their plans? E.g., tools, equipment, materials, components. | All units | All units |
| **Year 4** | * Can they create a final design for their product based on initial ideas and revisions based on existing ideas? * Can they create a detailed plan considering their target audience, design criteria and intended purpose? | All units | All units |
| **Year 5** | * Can they survey their target audience and use this to generate ideas? * Can they take a user’s view into account when designing? * Can the produce a detailed step-by-step plan for their design method? * Can they suggest some alternative designs and compare the benefits and drawbacks to inform the design process and outcome? | All units | All units |
| **Year 6** | * Can they use a range of information to inform their design? * Can they use market research to inform plans? * Can they work within constraints? * Can they justify their plan to someone else? * Can they consider culture and society in their design? * Have they considered the use of the product when selecting materials? * Have they thought about how their product can be marketed through packaging and advertising? | All units | All units |