**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 |