**D&T PRODUCT DESIGN –** Year 7 Progression Pathway

Name

Date

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| Strand | Working towards | 1-3 | 4-5 | 6-9 |
| **Investigation, Analysis & Evaluating** | Limited Research  Simple analysis of others designers and your own designs | Basic investigation of **the target market or end user** or Analysis **of the work of others** to inform ideas.  Limited research into a range of design movements.  An **investigation** into materials  **Simplistic Product analysis of existing products**  **Simplistic** **PEEL investigation** of relevant design movements | Some depth to your investigation of **the target market / end user** or Analysis **of the work of others** to inform ideas.  Reflective research into a range of design movements.  Some **investigation** into materials & sustainability with justification for design decisions.  **A good product analysis of existing products** that goes beyond simple statements about good and bad points  **Good PEEL investigation** of relevant design movements | Detailed investigation of the **target market/ end user**  **or** Analysisof **existing products**  to inform ideas.  A good understanding of the **impact on society** that designers have **or** Insightful and reflective research into a range of modern/smart materials.  **Investigation** into materials **or** sustainability with justification for design decisions.  **Detailed product analysis of existing Eco products** that goes beyond simple statements about good and bad points  **Thorough PEEL investigation** of relevant design movements |
| **Designing** | Design ideas are basic and have been developed with no reference to use, appearance and creativity. | **Design ideas** have been developed with some reference to research  **Isometric sketching** shows some understanding of the techniques  **Shading** demonstrates some skill in cross hatching  **Development work** is evident in Surface designs for box lid | **Creative & imaginative** design ideas have been developed with clear reference to research into movements.  **Sketching** shows a good understanding of the techniques  Shading demonstrates some skill in cross hatching and **rendering techniques**  **Good experimentation** and development work is evident in Surface designs for box lid and the CAD/CAM. | Creative, imaginative and **innovative ideas** have been developed  Surface details demonstrates confidence in geometric designs that **link research with iterative developments**  **CAD** shows a demonstrates a full understanding of the techniques learned  **Extensive experimentation** and development work is evident in development of initial designs and the CAD/CAM. |
| **Making** | Prototype(s) shows limited level of making/finishing skills Tools, materials and equipment have been used but needed close supervision | Basic level of making/finishing skills  **Inaccurate and/or partially complete.**  Tools, materials and equipment **requiring supervision.**  **Basic** evidence of the stages of making. | Products shows good level of **making skills** that are appropriate  **Tools, materials and equipment** have generally been operated correctly and safely.  Product shows some evidence of **quality of manufacture**. | High level of making/finishing skills  Electronic components have been assembled to a high level of accuracy  Working **independently** at an exceptionally high level, both skilfully and safely.  The final Prototype demonstrates excellent making skill and have the **potential to be commercially viable** |