

Year	Term 1	Term 2	Term 3
7	Unit Title – Home for Everyone Area of Focus - Architecture  Students will be learning: <ul style="list-style-type: none"> <li>• Client centred design</li> <li>• How to present ideas in 2D and 3D</li> <li>• Isometric, single point perspective and plan drawing standards</li> <li>• Drawing to scale</li> <li>• Methods of energy production</li> <li>• Gears and mechanisms</li> </ul>	Unit Title – E-Wrist Band Area of Focus – Textiles  Students will be learning: <ul style="list-style-type: none"> <li>• How textiles are decorated around the world</li> <li>• Recent advances in textiles including smart and technical textiles</li> <li>• Electronic circuits &amp; symbols</li> <li>• Hand and machine sewing skills</li> <li>• How to incorporate electronic into textiles</li> <li>• Biomimicry</li> </ul>	Unit Title – Bug Hotel Area of Focus – Timbers  Students will be learning: <ul style="list-style-type: none"> <li>• The properties of timbers and manufactured boards</li> <li>• Environmental concerns in D&amp;T</li> <li>• Design development &amp; modelling</li> <li>• Planning for manufacture</li> <li>• Workshop safety</li> <li>• Using a range of specialist wood working materials</li> </ul>
8	Unit Title – Pencil Roll Area of Focus - Textiles  Students will be learning: <ul style="list-style-type: none"> <li>• The working and aesthetic properties of different fibres and fabrics</li> <li>• A range of techniques for decorating fabrics</li> <li>• Safe threading &amp; use of a sewing machine</li> </ul>	Unit – Eco-classroom Area of Focus – Architecture <ul style="list-style-type: none"> <li>• Sustainable building practices</li> <li>• Site surveys</li> <li>• Building Design</li> </ul> Unit Title – Computers in D&T <ul style="list-style-type: none"> <li>• Programming using inputs and outputs</li> <li>• 3D designing</li> <li>• 3D printing and laser cutting</li> </ul>	Unit Title – Alimals Area of Focus – Metals  Students will be learning: <ul style="list-style-type: none"> <li>• The properties of metals and plastics</li> <li>• Using a range of specialist metal working materials</li> <li>• Problem solving and 3D modelling</li> </ul> Pattern design
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