

Textiles – Y7

Puggly Project

KS4 target direction	4	6	8(9)
<p>Secure</p> <p>Students must achieve competence in all statements before being judged 'Secure'</p>	<p>Secure</p> <p>The student can:</p> <ul style="list-style-type: none"> •Design - Develop and communicate detailed design ideas using sketches. •Make – Can thread a needle with help, complete a basic straight stitch. You can select appropriate equipment and use. You can select materials and components to use. •Evaluate - Test and evaluate their final outcome, gather some feedback from peers. •Technical Knowledge – understand the differences in the fabrics and components being used. •Homework – All homework tasks, including the extended project have been completed to a high standard. 	<p>Secure</p> <p>The student can:</p> <ul style="list-style-type: none"> •Design - Develop and communicate detailed design ideas using annotated sketches. •Make – Can thread a needle independently, complete a range of simple stitches. You can select appropriate equipment and use with skill. You can select materials and components to use that are appropriate for their intended use. •Evaluate - test, evaluate and modify their ideas against a specification, gather feedback from intended users and peers. •Technical Knowledge – understand the structure of the materials being used and put this knowledge into practise when selecting materials to use. •Homework – All homework tasks, including the extended project have been completed to a high standard. 	<p>Secure</p> <p>The student can:</p> <ul style="list-style-type: none"> •Design - Develop and communicate detailed design ideas using annotated sketches, which include fabrics & components. •Make – Can thread a needle independently, complete a wide range of construction and decorative stitches including chain stitch and blanket stitch accurately and neatly. You can select appropriate equipment and use precisely with skill. You can select materials and components to use based on their working properties. •Evaluate - test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups •Technical Knowledge - have included an electronic circuit which lights an LED using battery power. understand the structure of the materials being used and put this knowledge into practise when selecting materials to use. •Homework – All homework tasks, including the extended project have been completed to a high standard.

Product Design – Y7

Wind Power Project

KS4 target direction	4	6	8(9)
<p>Secure</p> <p><i>Students must achieve competence in all statements before being judged 'Secure'</i></p>	<p>Secure</p> <p>The student can:</p> <p>Design Show 4 designs of wind turbines. Each component of the wind turbines needs to be clearly drawn</p> <p>Make Make a wind turbine that is freestanding and turns when wind is applied</p> <p>Evaluate Comment on the efficiency of the wind turbine. What factors determined the outcome Explain most health and safety requirements when making</p> <p>Technical knowledge Understand what a mechanism is and how it can be used to do different jobs and activities.</p> <p>Homework Homework tasks must be complete. Has relevant information corresponding with the project</p>	<p>Secure</p> <p>The student can:</p> <p>Design Produce 4 designs of wind turbines. These designs must be clearly drawn with each component labelled.</p> <p>Make Make a wind turbine where most components are of equal size. Each piece of timber is sanded so the surface and the edges are smooth</p> <p>Evaluate Evaluate the project and how well your wind turbine performed making reference to the materials and the tools you used Explain any health and safety requirements when making</p> <p>Technical knowledge Understand how mechanisms and machines can be used to enhance technology.</p> <p>Homework All homework tasks are completed to a good standard.</p>	<p>Secure</p> <p>The student can:</p> <p>Design Produce 4 designs of wind turbines that are distinctly different to one another. Designs need to be fully annotated in terms of materials used, sizes, and the function. Design decisions need to be fully explained regarding prototype</p> <p>Make Make a wind turbine that has components that are in exact proportion to one another. Each component is finished to a high degree and assembled perfectly according to the design. The waterwheel turns easily and produces power.</p> <p>Evaluate Evaluate in detail exactly how your wind turbines performed in testing. Talk about the materials, the design, the construction process and the time limitations. Explain any health and safety requirements when making</p> <p>Technical knowledge Understand how mechanical systems can be improved by employing engineering principles. Understand what materials and tools are being used and why they are being used</p> <p>Homework All homework tasks, including the extended project have been completed to a high standard.</p>