

Assessment grid			
Subject: rm		Year: 7	
Topic/module/theme: waterwheel			
KS4 target direction	4	6	8(9)
<b>Advanced</b>	Enrichment/extension – reaching, or part of, next pathway → Features of work may include:	Enrichment/extension– reaching, or part of, next pathway → Features of work may include:	Enrichment/extension Features of work may include:
<b>Secure</b>  <i>Students must achieve competence in <b>all</b> statements before being judged 'Secure'</i>	<b>Secure</b> The student can: <b>Design</b> Show at least 2 designs of waterwheels. Each component of the waterwheel needs to be clearly drawn  <b>Make</b> Make a waterwheel that is freestanding and turns when water is applied	<b>Secure</b> The student can: <b>Design</b> Produce 3 designs of waterwheel. These designs must be clearly drawn with each component labelled.  <b>Make</b> Make a waterwheel where most components are of equal size. Each piece of plywood is sanded so the surface and the edges are smooth	<b>Secure</b> The student can: <b>Design</b> Produce 3 designs of waterwheel 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  <b>Make</b> Make a waterwheel 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.



	<ul style="list-style-type: none"> <li>• <b>Evaluate</b> Comment on the amount of electrical energy your waterwheel produced. What factors determined the outcome Explain most health and safety requirements when making</li> </ul> <p><b>Technical knowledge</b> Understand what a mechanism is and how it can be used to do different jobs and activities. Know</p> <p><b>Homework</b> Homework tasks are incomplete or to an unacceptable standard.</p>	<p><b>Evaluate</b> Evaluate the project and how well your waterwheel performed making reference to the materials and the tools you used Explain any health and safety requirements when making</p> <p><b>Technical knowledge</b> Understand how mechanisms and machines can be used to enhance technology.</p> <p><b>Homework</b> All homework tasks are completed to a good standard.</p>	<p><b>Evaluate</b> Evaluate in detail exactly how your waterwheel 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><b>Technical knowledge</b> 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><b>Homework</b> All homework tasks, including the extended project have been completed to a high standard.</p>
<b>Developing</b>	Mostly secure – one or more gaps	Mostly secure – one or more gaps	Mostly secure – one or more gaps
<b>Beginning</b>	Significant gaps	Significant gaps	Significant gaps