

Water Treatment Rubric Name: _____

By the end of this unit, students should be able to design their own water treatment systems. Students will demonstrate their knowledge and understanding of the characteristics and properties of the water treatment system and the importance of its use within the community. Students will use their knowledge and understanding of water treatment facilities to construct a flow chart detailing the steps for water treatment as well as evaporation, to show an understanding of the importance that evaporation has in the water treatment process. Students will generate well-reasoned design ideas and produce their own water treatment systems. Students will present their findings in a multimodal presentation, which will be peer reviewed by other groups, as well as reflections by the group as a whole.



ASSESSABLE ELEMENTS	DESCRIPTORS				
	A	B	C	D	E
	The student work demonstrates evidence of:				
Knowledge and understanding – Knowledge and understanding of process	Comprehensive knowledge and understanding of the process of the water treatment facility, how evaporation effects the process and the sequence of the process.	Thorough knowledge and understanding of the process of the water treatment facility, how evaporation effects the process and the sequence of the process.	Satisfactory knowledge and understanding of the process of the water treatment facility, how evaporation effects the process and the sequence of the process.	Limited knowledge and understanding of the process of the water treatment facility, how evaporation effects the process and the sequence of the process.	With support has knowledge and understanding of the process of the water treatment facility, how evaporation effects the process and the sequence of the process.
Ideation – Planning, investigation and designing	Discerning interpretation and analysis of the water treatment process with information and evidence to generate well-reasoned design ideas.	Logical interpretation and analysis of the water treatment process with information and evidence to generate convincing design ideas	Relevant interpretation and analysis of the water treatment process with information and evidence to generate credible design ideas	Limited interpretation and analysis of the water treatment process with information and evidence to generate design ideas	With support can interpretation and analysis of the water treatment process with information and evidence to generate design ideas

Production – Making and Testing	<p>Controlled and skilful implementation of production processes to design and make water treatment system.</p> <p>Tools and techniques are skilfully used to manipulate materials in the designing and constructions stages.</p> <p>Understands the need for safety and consistently applies safe practices.</p>	<p>Purposeful and effective implementation of production processes to design and make a water treatment system.</p> <p>Tools and techniques are effectively used to manipulate materials in the designing and constructions stages.</p> <p>Understands the need for safety and regularly applies safe practices.</p>	<p>Appropriate and credible implementation of production processes to design and make a water treatment system.</p> <p>Tools and techniques are adequately used to manipulate materials in the designing and constructions stages.</p> <p>Understands the need for safety and sometimes applies safe practices.</p>	<p>Variable implementation of production processes to design and make a water treatment system.</p> <p>Tools and techniques are used with significant assistance to manipulate materials in the designing and constructions stages.</p> <p>Understands the need for safety but application is inconsistent.</p>	<p>Minimal implementation of production processes to design and make a water treatment system.</p> <p>An attempt is made to use tools and techniques to manipulate materials in the designing and constructions stages.</p> <p>Understands the need for safety</p>
Evaluation – Reflection and peer review	<p>Perceptive evaluation of products and processes</p> <p>Perceptive reflection on the impact of technology and on their learning</p> <p>Perceptive peer review of water treatment system designs.</p>	<p>Informed evaluation of products and processes</p> <p>Informed reflection on the impact of technology and on their learning</p> <p>Informed peer review of water treatment system designs.</p>	<p>Relevant evaluation of products and processes</p> <p>Relevant reflection on the impact of technology and on their learning</p> <p>Relevant peer review of water treatment system designs.</p>	<p>Narrow evaluation of products and processes</p> <p>Superficial reflection on the impact of technology and on their learning</p> <p>Superficial peer review of water treatment system designs.</p>	<p>Incomplete evaluation of products and processes</p> <p>Incomplete reflection on the impact of technology and on their learning</p> <p>Incomplete peer review of water treatment system designs.</p>

Comments: _____
