

Course/Subject/Grade(s): Science 9		Planning Team: THSS				
Unit Big Idea: The biosphere, geosphere and atmosphere are interconnected as matter cycles and energy flow through them		Unit Guiding Question: Why do we need the sun?				
Goals	Access – This is what I NEED to know and do	All – This is what I MUST know and do	Most – This is what I CAN know and do	Few – This is what I COULD know and do	Extension – This is what I can TRY to know and do	
Content Goal: The effects of solar radiation on the cycling of matter and energy	I know that the sun gives <b>light</b>  I know why the <b>Earth</b> needs light from the <b>sun</b>	I know <b>solar radiation</b>  I know the <b>different types</b> of light radiation	I know the <b>effects</b> of solar energy on the Earth  I know the <b>connection</b> of solar radiation to the <b>water cycle</b>	I know the connection of solar radiation to <b>wind and ocean currents</b>	I know how solar radiation is connected to the <b>distribution of energy and nutrients</b> around the planet	
Curricular Competencies: Questioning	<b>Sustained intellectual curiosity</b>	I can wonder about a scientific topic	I can ask questions about a scientific topic	I can ask questions to further my inquiry about a scientific topic	I can sustain my inquiry about a scientific topic over time	I can sustain an inquiry about a scientific topic of my own interest over time
	<b>Make observations</b>	I can use my senses to observe and describe	I can make observations to identify questions about a topic	I can observe to find patterns to help explain or support a hypothesis	I can observe & make connections to phenomena in the natural world connected to my inquiry	I can observe ethically in the natural world
	<b>Hypothesize</b>	I can come up with possible explanations to my wonderings	I can make an informed hypothesis about a scientific question	I can come up with multiple informed hypothesis about a scientific topic	I can formulate new hypothesis based on new information in a scientific inquiry	I can predict multiple outcomes to my own inquiry