**Building a Learning Map!**

Goals

Prior knowledge

Grade Level Curriculum

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| --- | --- |
| **Course:** | **Teacher:** |
| **Unit Big Idea:** | **Unit Guiding Question:** |
|  | **1****Not yet meeting** | **2****Approaching** | **3****Meeting** | **4****Exceeding** |
| **Content** |  |  |  |  |
| **Curricular Competencies** |  |  |  |  |  |  |
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**SCIENCE 9**

Need to know

Need to understand

**Need do**

|  |  |
| --- | --- |
| **Course:** Science 9 | **Teacher:**  |
| **Unit Big Idea:** The biosphere, geosphere and atmosphere are interconnected as matter cycles and energy flows through them | **Unit Guiding Question:** Why do we need the sun? |
|  | **1** | **2** | **3** | **4** |
| **Content**Effects of solar radiation on the cycling of matter and energy | I know that the sun gives lightI know why the Earth needs light from the sun | I know solar radiationI know the different types of light radiation | I know the effects of solar energy on the cycling of matter and energy on the EarthI know the connection of solar radiation to the water cycle | I know how solar radiation is connected to wind and ocean currents, and the distribution of energy and nutrients around the planet |
| **Curricular Competencies** | **Questioning and Predicting** | Sustained intellectual curiosity | I wonder about a scientific topic | I ask questions about a scientific topic | I ask questions to further my inquiry about a scientific topic | I sustain an inquiry about a scientific topic of my own interest over time |
| Make observations | I use my senses to observe and describe | I make observations to identify questions about a topic | I observe to find patterns to help explain or support a hypothesis | I observe ethically and make connections to phenomena in the natural world connected to my inquiry |
| Formulate Multiple hypotheses | I come up with possible explanations to my wonderings | I make an informed hypothesis about a scientific question | I come up with multiple informed hypothesis about a scientific topic | I formulate new hypothesis based on new information in a scientific inquiryI predict multiple outcomes to my own inquiry |