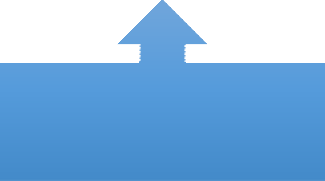
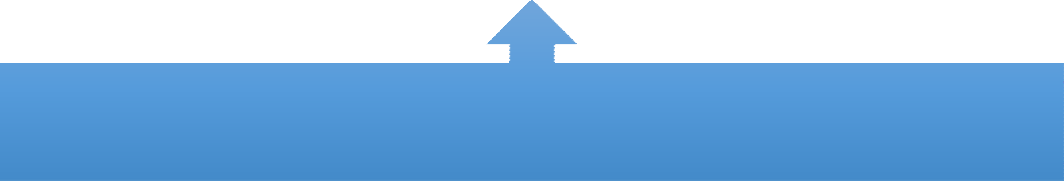
**Building a Learning Map!**

Goals

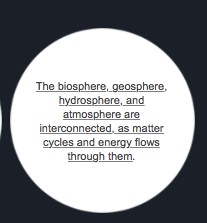
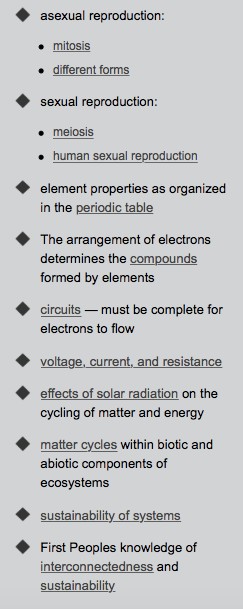


Prior knowledge



Grade Level Curriculum

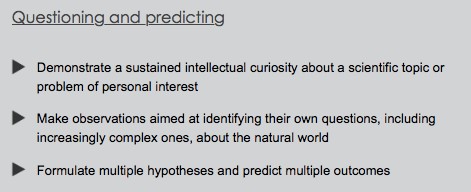
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Course:** | | | | **Teacher:** | | |
| **Unit Big Idea:** | | | | **Unit Guiding Question:** | | |
|  | | | **1**  **Not yet meeting** | **2**  **Approaching** | **3**  **Meeting** | **4**  **Exceeding** |
| **Content** | | |  | 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



**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 light  I know why the Earth needs light from the sun | I know solar radiation  I know the different types of light radiation | | I know the effects of solar energy on the cycling of matter and energy on the Earth  I 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 inquiry  I predict multiple outcomes to my own inquiry |