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| **Matrix 1: Waves and Energy** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Grade 7 Science Start Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Target Completion Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | |
| **Specific Skills** | | **Level of Knowledge** | | | | **Portfolio Evidence** | Teacher Initials |
| **Expectation Code** | **GLCE**  I meet the grade level expectation  when I can…. | ***Information***  I have heard of this | ***Knowledge***  I can tell you about it | ***Know-how***  I can do it by myself | ***Wisdom***  I can teach someone | I can show my knowledge through:  ***Documentation – A project or paper***  ***Demonstration – Doing it***  ***Defense – Talking to someone about it***  Here’s what I did for this skill: |
| P.EN.07.31 | Identify examples of waves, including sound waves, seismic waves, and waves on water. |  |  |  |  |  |  |
| P.EN.07.32 | Describe how waves are produced by vibrations in matter. |  |  |  |  |  |  |
| P.EN.07.33 | Demonstrate how waves transfer energy when they interact with matter (for example: tuning fork in water, waves hitting a beach, earthquake knocking over buildings). |  |  |  |  |  |  |
| P.EN.07.61 | Identify that nuclear reactions take place in the sun, producing heat and light. |  |  |  |  |  |  |
| P.EN.07.62 | Explain how only a tiny fraction of light energy from the sun is transformed to heat energy on Earth. |  |  |  |  |  |  |