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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. |  |  |  |  |  |  |