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| **Students will be able to….** | **Novice**  **1** | **Apprentice**  **2** | **Proficient**  **3** | **Distinguished**  **4** |
| **Build each renewable energy model effectively.** | Student does not understand the concept of how to build models. | Student can build models but there are issues with construction. | Student is able to effectively build models, and has a general understanding of how each model works. | Student is able to effectively build and explain how each of the parts contributes to the function of the model. |
| **Diagram and explain how each renewable energy source works.** | Student is unsure how to diagram and/or explain how each renewable energy source works. | Student is able to diagram and explain how each renewable energy source works with some errors. | Student is able to demonstrate and explain understanding of how each renewable energy source works with accurate diagrams. | Student demonstrates understanding of how renewable energy sources work and seeks to experiment with design modifications. |
| **Explain the energy transfer process for each renewable energy source.** | Student does not understand the energy transfer process. | Student can explain the energy transfer process with a few errors. | Student successfully explains the energy transfer process without errors. | Student successfully explains the energy transfer process and applies this knowledge when building new models. |