

Top Chef: Solar Edition Rubric

Name: _____

	Novice	Apprentice	Practitioner	Expert
Forms of Energy	I can tell the meaning of: light heat sound electrical mechanical Motion Kinetic Potential	I can: <ul style="list-style-type: none"> describe the sun as a form of energy. describe that energy has the ability to cause motion or create change. explain simple situations to show how light can also give off heat. summarize and provide examples of all the types of energy including: <ul style="list-style-type: none"> -light -heat -sound -electrical -kinetic -mechanical -potential 	I can: <ul style="list-style-type: none"> identify the forms of light, heat and mechanical energy that are involved in my solar oven. 	I can do all practitioner plus: -Evaluate other students' solar ovens (what worked well, what could they have done differently)
Energy Creates Change	I can tell the meaning of: heat light friction	I can: <ul style="list-style-type: none"> Demonstrate that radiant energy from the Sun can heat objects and explain why heat may be lost from objects when the Sun is not present Make a model to demonstrate what happens when two objects are rubbed together. 	I can: <ul style="list-style-type: none"> form conclusions about how light and heat are related in my solar oven. develop an argument about how energy created change in my solar oven. 	I can do all practitioner plus: Document my findings on how heat is produced and share my results. (Should include a diagram to show the relationship of light traveling and creating heat)
Traveling Light	I can tell the meaning of: light travel objects refract reflect absorb	I can: <ul style="list-style-type: none"> Explain how each of those vocabulary words are related to how light travels 	I can: <ul style="list-style-type: none"> form a conclusion about how light travels in my solar oven. predict under what conditions I could use my solar oven to make light travel in the two other ways. 	I can do all of practitioner plus: Create a project that demonstrates the 3 ways light travels
Expository Writing	I can: list the steps of the expository writing process.	I can: <ul style="list-style-type: none"> use transition words to explain a process. sequence the steps of a process. 	I can: <ul style="list-style-type: none"> write to explain how to make a solar oven using the steps of design process. write to explain how the light traveled while making my solar oven. 	I can do all of practitioner plus Write a letter to the FSEC to tell them why third graders should participate in their solar oven competition.