

Sunlight energy is part of the Electromagnetic Spectrum. It can be used to heat food in solar cookers. You will make your own solar cooker and must be able to explain how solar cookers work (even if yours isn't too effective).

Your Solar Cooker **Initial Design Log** and **Re-Design Log** will be your product. You must demonstrate your understanding of the following ideas. (As always, you will be interviewed on each category of your product.)

Assessment categories:

Content:

1. Explain the energy transformation that occurs in a solar cooker. [What energy goes in and what does this energy change into?]
2. Describe materials that **reflect** light waves really well and why this would be desirable in some parts of a solar cooker.
3. Describe materials that **absorb** light waves really well and why this would be desirable in some parts of a solar cooker.
4. Describe materials that **transmit** light waves really well and why this would be desirable in some parts of a solar cooker.

Skills:

1. Analyze data you collect to show which cooker design (initial or re-design) is the more effective cooker.