

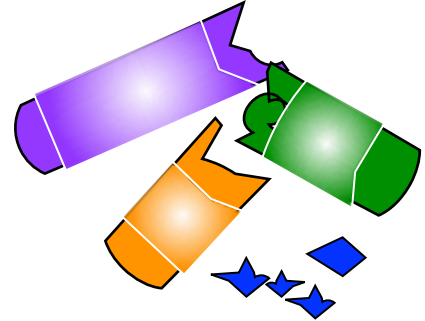
Recycled Crayons

Inspired by *June's Solar Oven* by Jen Malia.

Goal: Use a solar oven to recycle crayons.

You will need:

- A solar oven
- Small containers (such as muffin tin liners, foil molded into a bowl, or silicone molds)
- Pieces of crayon
- Optional: thermometer, timer



What to do:

- Gather crayons (broken or small pieces work well).
- Remove any paper from the crayons.
- Place the pieces of crayons in small containers. You may keep the colors separate or mix colors to create a new shade.
- Place the containers in the solar oven.

What to consider:

- Investigate to find out which things (variables) contribute to the crayons melting more quickly. Find out if the following variables change how fast the crayons melt:
 - size of the crayon pieces
 - number of crayon pieces in one container
 - type of containers
 - number of containers
 - time of day
 - outside air temperature
 - the internal temperature of the oven before you begin
- What other variables would you like to investigate?
- Remember to change only one variable at a time to determine which variable has the most impact. Record your findings as you investigate. An oven-type thermometer and/or a timer may be helpful.
- How else could you melt crayons using the sun's energy?