

A STEM in the Park Take Home Activity

STEM in the PARK

Science, Technology, Engineering, and Mathematics

Make It! Glass



What's the Activity?

Students will simulate glass making with a sugar mixture and have the opportunity to observe that heat and energy are required make glass. Since ancient times, glass has been manufactured by heating a sand/lime/soda mixture, and then slowly cooling it.

Materials

- 2 cups sugar
- 1/3 cup light corn syrup
- 1/3 cup water
- 2 tsp. vinegar
- Nonstick cooking spray
- Electric frying pan or hot plate and pan
- Sheet of glass
- Candy thermometer

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Directions

Combine ingredients and cook to hard crack stage on thermometer (300° F), while stirring vigorously. Carefully pour the mixture onto the sheet of glass coated lightly with non-stick spray. If the glass is small enough, set it inside a cookie sheet to prevent runover. Allow it to cool about 15 minutes. Then hold up the two sheets of glass so students can see through them.



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