SCIENCE CHALLENGE









IVORY SOAP

The brief

Create a big soapy marshmallow out of lvory soap®.

The method

- Place the bar of soap in the middle of a plate covered with a paper towel and place in the center of the microwave oven.
- 2. Cook the bar of soap on high for two minutes.



- Watch the bar of soap as it begins to expand and erupt into puffy clouds. Be careful not to overcook it.
- 4. Allow the soap to cool for a minute. Touch it. Feel it. Look at it.

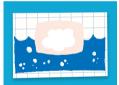


SCIENCE 20

Designed by Lydia, Global head of the James Dyson Foundation

Materials

manoriano
lvory soap®
Paper towels
••••••
A microwave
(with adult supervision)
A plate



How does it work?

Ivory scap[®] floats because it has air pumped into it during manufacturing. When the air inside the scap heats up, the air expands and reacts with the water inside. The expanding goses push on the softened scap, creating foam. This effect is a demonstration of Charles' Law. Charles' Law states that as the temperature of a gas increases, so does its volume.