



Rangers Activity

Fuels of the Future

OFFICIAL GIRLGUIDING ACTIVITY
Adapted from Rangers UMA "Fuels of the Future"
by Girlguiding Middlesex East for Camp 2020 -
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Aim: The race to find our next energy source is on! Investigate the possibility of biofuels and experiment to find out their potential.

Fossil fuels are non-renewable resources that take so long to form they can't be replaced once they're finished and are likely to become more expensive as they run out. Others make harmful substances when they're burned. Biofuels are an organic form of energy produced from plant materials that can be used instead of fossil fuels. Experiment to find out which biofuel is the most potent.



1. To test your biofuels peel off a large section of peel from each fruit
2. Light your candle, making sure your hair is tied back if long, clothing is tucked in and the candle is in a safe place.
3. Hold a piece of peel between your fingers with the waxy side near the flame. Squeeze the peel so its juice sprays into the flame. How does the flame react?
4. Repeat with each peel you have. Do they all react the same? When the juice sprays the flame, its energy is burned off. The larger the flame the more energy in the spray.
5. Share your results with the rest of the camp by using #Camp2020TheHomeEdition

