

Sustainability - Science Program

Lesson 3

Three main focal points

- Energy uses in day to day life
- Alternative fuels
- Methods of reducing energy consumption

1. Start by reminding pupils of lessons one and two (≈5 mins)
2. Initiate discussion "What do we use energy for?" leading to heating, cooking, washing etc. (≈10 mins)
3. Demonstrate energy used to boil full kettle from cold using Energy Meter plug. (≈5 mins)
4. Watch Brainpop on "Fuel Cells" and "Solar Energy" (≈10 mins)  
[www.brainpop.com](http://www.brainpop.com)
5. Demonstrate energy used to boil kettle with only enough water for individual cups. (≈5 mins)
6. Lead discussion on other methods of reducing energy consumption in the house.  
(Mention media campaigns to turn down washing machines, turning off heating, not using stand by modes etc.) (≈10 mins)
7. Finish off with Brainpop "Humans and the Environment" if time allows.