



Student Notes

Future Spark - Student Work Sheet.

Student Name: _____ Class: _____

Student details:

Resting Pulse (beats per minute)	Pulse after cycling (beats per minute)	Body Temperature before cycling (°C)	Body Temperature after cycling (°C)

How I feel before cycling-	How I feel after cycling-

1. What do you think energy is?
2. How is energy different to power?

Team Name	Team Members	Time spent cycling on Future Spark.	Watt hours generated.



Student Notes

Popcorn takes about 30 watt hours of power to cook. How long would it take your team to cycle on Future Spark in order to cook some popcorn?

Load Component	Rank the load components in order of which you think uses the least energy to the most energy.(i.e. 1 is least energy used – 6 is most energy used)	Record the power actually used to operate the load component.	Can I sustain this by cycling on my own ?	Can I sustain this by cycling with my team ?
microwave				
Kettle				
Hair dryer				
Fluorescent Light globe				
Incandescent light Globe				
Lap top computer				

Driving to school in a car requires much energy. How much energy do you think the average car uses in driving 2 kilometres? How would this compare to the energy required to cycle 2 kilometres to school?
