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# ENERGY

This is a sample Energy Activity Sheet only. Its main purpose is to show you some of the interesting activities that you can do when you choose this badge. Also, you can use this sample sheet to start doing the badge activities, while your teacher is sending away for the full activity sheet and badge.

If you have completed some of these activities before your full sheet arrives, your teacher can mark this sheet, then transfer the marks to the full activity sheet.

## Sample Energy Activity Sheet

Rating	Energy Activities	Teacher's initials and date
1 *	Find and display pictures of six different devices that convert energy from one form to another. State the initial energy source and what type of energy it is converted into.	
2 **	Demonstrate energy transfer by dropping a basketball from waist height and measuring what height it rebounds to. Repeat but use a tennis ball instead of the basketball. Repeat the experiment again but this time hold the tennis ball on top of the basketball and drop both at the same time. Report what you observe and explain.	
4 *	Design a bumper sticker on energy conservation.	
8 ***	Build a simple wind powered generator that will light a torch bulb. Report on how it works.	
22 **	In New Zealand much of our electrical energy is produced using hydroelectric power. Research how this works, where the power stations are situated and what proportion of our electricity is produced by hydro in an average year, compared with other sources. Present as a poster.	
27 **	Build a simple one cell battery by placing a galvanized nail and some copper wire into a lemon. Demonstrate that you have made a battery by connecting the nail and the copper wire to a small torch bulb using connecting wires.	

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