5I).



Electrical circuits and energy changes.

Investigate how to wire up the various parts of the board and then consider the energy changes involved.

YOU HAVE:

An electrical circuit board. (motor/generator, LED, buzzer, solar panel, capacitor) A stop clock, Connecting wires and plugs.

SAFETY:

No real safety issues.

POSSIBLE QUESTIONS TO ANSWER:

- 1). How can the motor/generator be connected to make the fan rotate?
- 2). How can the motor generator be connected to make the buzzer sound and the LED light?
- 3). How can you use the solar panel to make the LED light?
- 4). How can the solar panel be used, with the capacitor to make the buzzer sound?
- 5). What can a capacitor be used for?
- 6). What energy changes occur in your investigations

REPORT.

Prepare to describe to the group:the experiments that you did, what you have discovered, any general conclusions.

Your report should take 3-4 minutes.

You should be prepared to answer questions from the group.