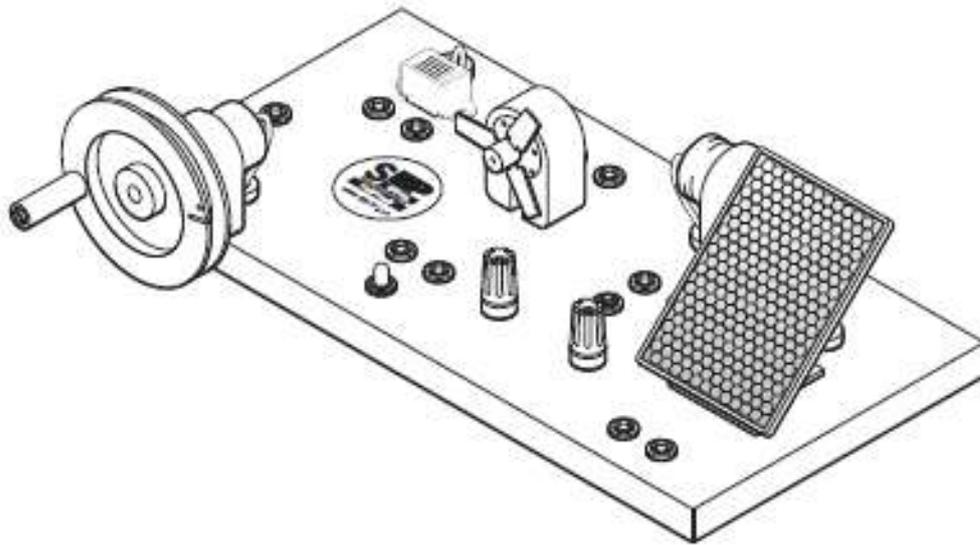


Energy Transfer Unit



1. Connect the two wires from the dynamo to the motor.
2. Does the motor turn? Explain your answer.
3. Now turn the dynamo being careful not to overwind or turn this the wrong way.
4. Does the motor turn? Explain your answer.
5. Will the motor turn indefinitely (forever)? If not why not, if it will how?
6. What happens when you turn the dynamo in the other direction?
7. Can you explain what is happening?
8. Repeat using the LED, and buzzer
9. Now connect the motor to the inputs from the solar cell.
10. Can you get the motor to turn?
11. Can you change the speed that the motor turns?
12. Repeat for the buzzer and LED.
13. Connect the dynamo to the capacitor and turn for 60 s at a steady rate.
14. Is anything happening to the capacitor?
15. Remove the wires from the dynamo end
16. Describe what might be happening in the capacitor.
17. Connect the capacitor wires to the buzzer and notice what happens.
18. Does the buzzer sound? If it yes, will it sound continuously? If it did not sound why not?
19. Connect the dynamo and capacitor again. Stop after 60s and note what happens.
20. Can you explain what a capacitor does?