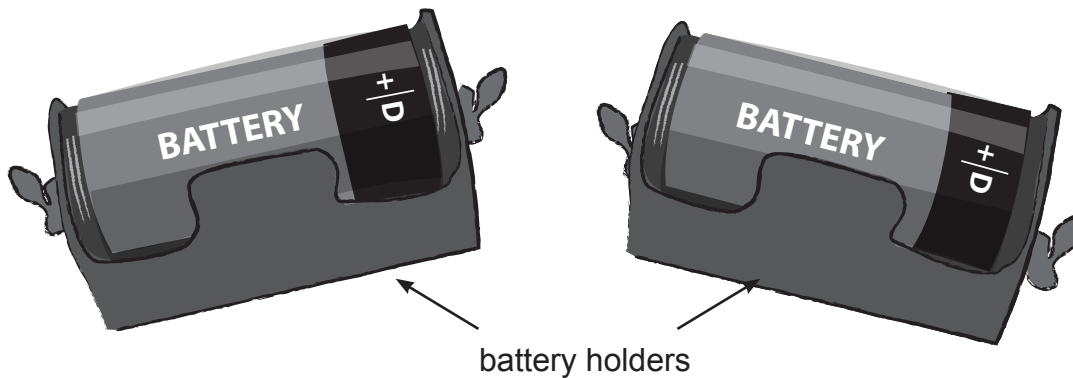


Grade 4

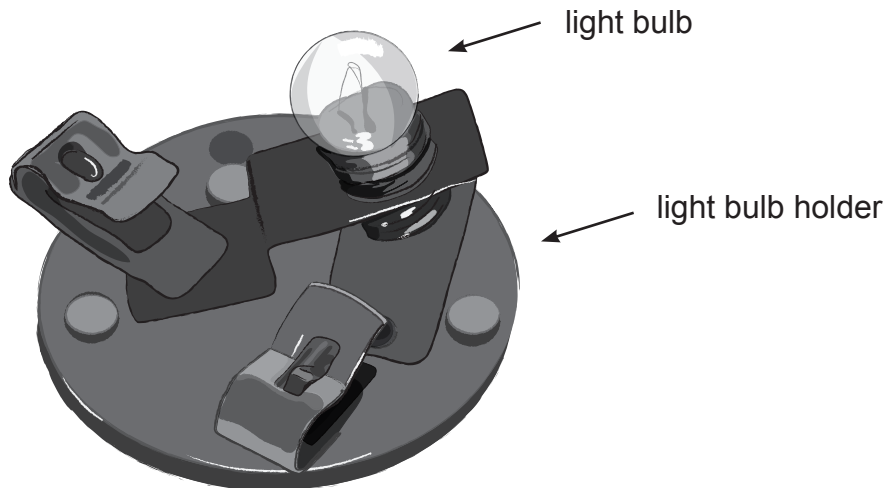
RM 1: Exploring Energy

Instructions

- Place the batteries in the battery holders.
- Connect the battery holders with one wire.
- Attach wires to the other ends of the battery holders.



- Place the light bulb in the light bulb holder.

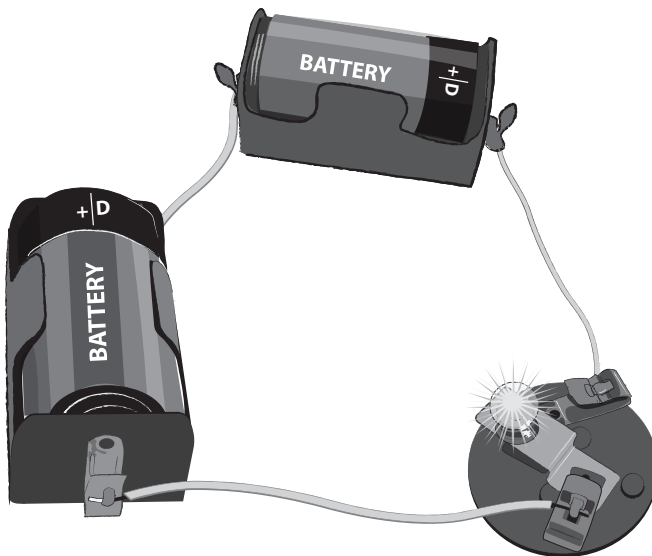


Grade 4

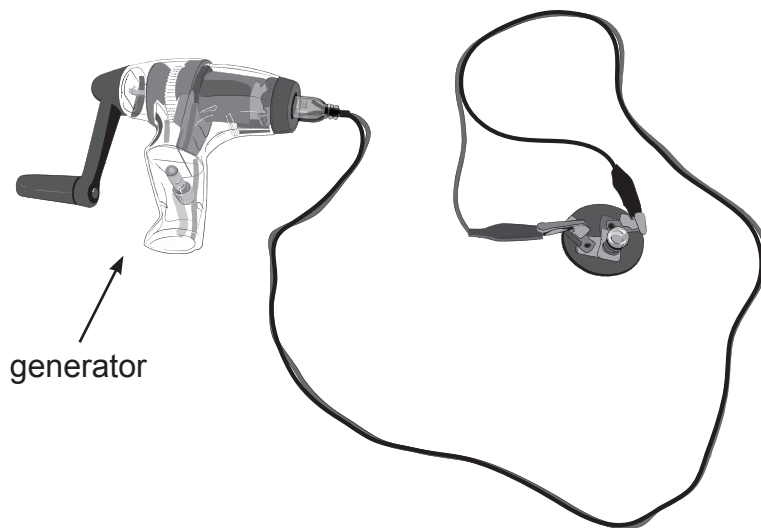
RM 1: Exploring Energy continued

Activity 1

1. Connect the wires from the batteries to the light bulb and observe. Make sure your batteries are aligned with a positive (+) end facing a negative (–) end.



2. Detach the light bulb from the batteries.
3. Connect the generator to the light bulb and observe. Start by slowly turning the handle on the generator. Continue to slowly increase the speed with which you are turning the handle. Be careful not to burn out the light bulb by turning the handle too fast.



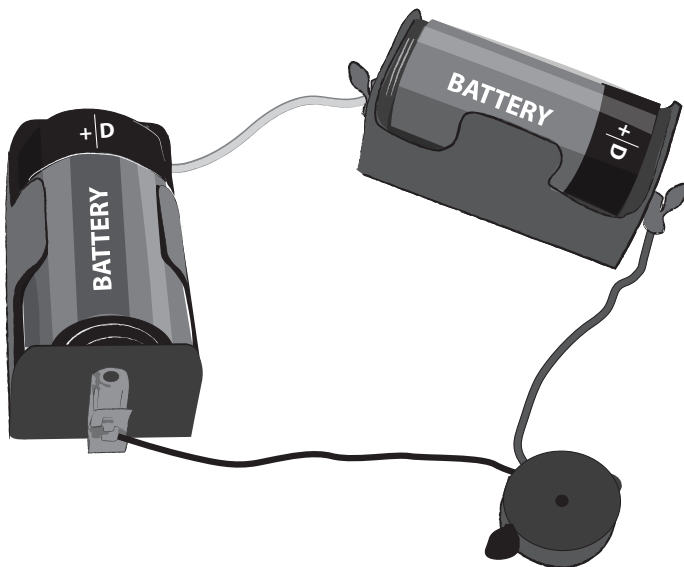
4. Detach the light bulb from the generator.

Grade 4

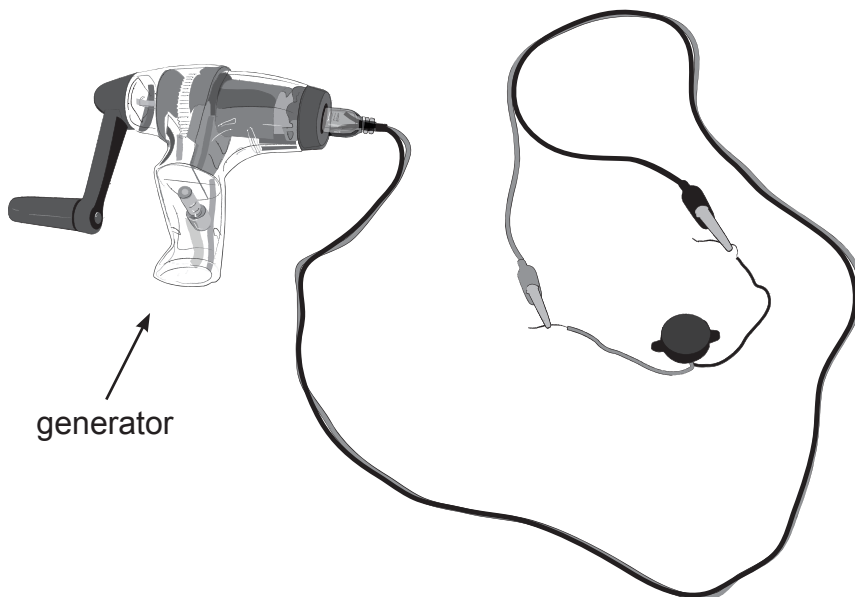
RM 1: Exploring Energy continued

Activity 2

1. Connect the wires from the batteries to the buzzer and observe. If the buzzer does not work, try reversing the red and black wires.



2. Detach the buzzer from the batteries.
3. Connect the generator to the buzzer and observe.



4. Detach the buzzer from the generator.

Grade 4

RM 1: Exploring Energy continued

Activity 3

1. Tape a small piece of paper to the gear on the motor.
2. Connect the wires from the batteries to the motor and observe.



3. Detach the motor from the batteries.
4. Connect the generator to the motor and observe.



5. Detach the motor from the generator.