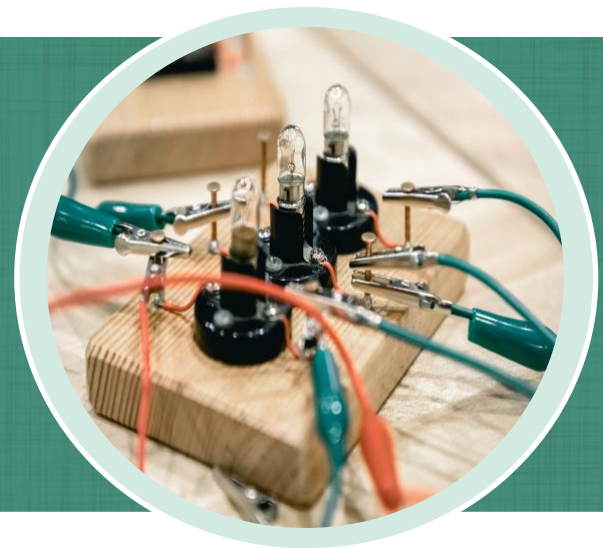


Virtual Circuits



Electricity All Around Us
Learner Worksheet
Grade Level: 5-8

Name:

Access the online component and answer the following questions.

1. Circle the option that provides the most voltage to the motor.

Option: 1 2 3 4

Now answer these questions about the option you chose in question 1:

2. What is the speed of the motor for the above option?

Option: faster slower no speed

3. What is the life of the battery for the above option?

Option: high medium low

4. How many batteries are in the circuit?

5. How are the batteries wired together?

6. Circle the option that provides the least voltage to the motor.

Option: 1 2 3 4

Now answer these questions about the option you chose in question 6:

7. What is the speed of the motor for the above option?

Option: faster slower no speed

8. What is the life of the battery for the above option?

Option: high medium low

9. How many batteries are in the circuit?

10. How are the batteries wired together?

11. Two of the options provide the same voltage of 1.5 volts. What are the differences between the two options on battery life and speed of the motor?

12. Most battery-operated devices require high voltage. How should the batteries be wired to provide high voltage?

13. Are most battery-operated devices connected in series or parallel? Why?
