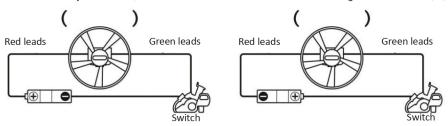


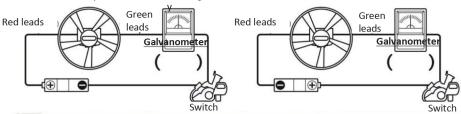
Multi-Functional Electric Car - Model NR Worksheet

Experiment 1: Let's find out which way the batteries are connected and how the current flows!

☆ For each battery orientation, write the direction in which the motor is rotating with an arrow in (_).

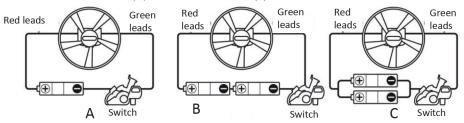


☆ For each battery orientation, write the galvanometer needle's direction with an arrow in ().



Experiment 2: Let's find out how strong the current is by changing how the batteries are connected!

☆ Which connection of A, B, and C turns the fastest? ()



☆ What is the name of the method used to connect the batteries in B and C? Let's write in the brackets () below.

connection (

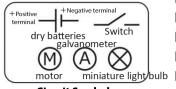
connection

☆ Choose the same connection method from A, B, and C as in the three schematics below, and write your answer in the blankets.



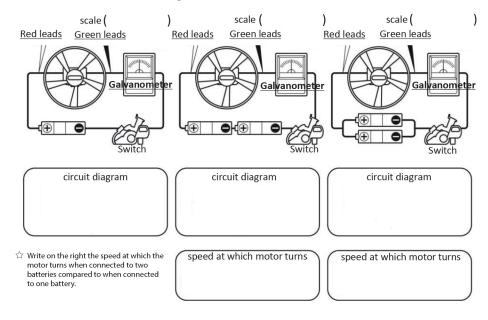






Circuit Symbols

A Measure the current strength in each battery connection and write the number on the scale in the brackets. Draw a circuit diagram for each below.

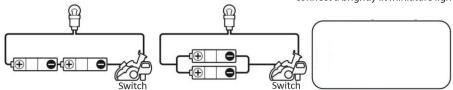


Summarize the relationship between how to connect dry batteries and the strength of the current



Let's try! Let's find out how to connect a battery and the brightness of a miniature light bulb!

☼ Draw a schematic below showing how to connect a brightly lit miniature light bulb.



 $\stackrel{\leftarrow}{\sim}$ What is the light bulb's brightness when connected to two batteries compared to one battery?

