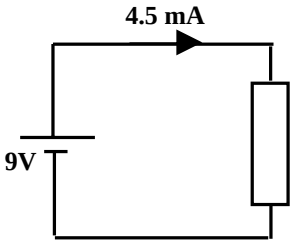
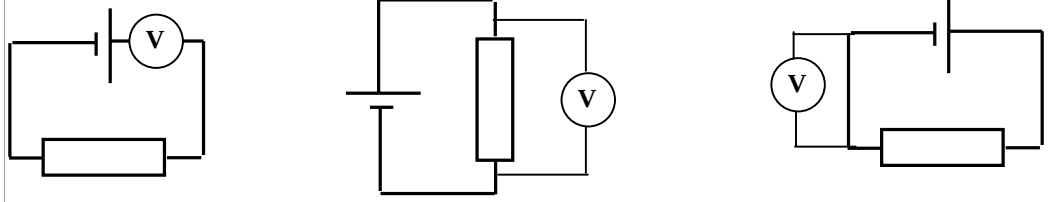
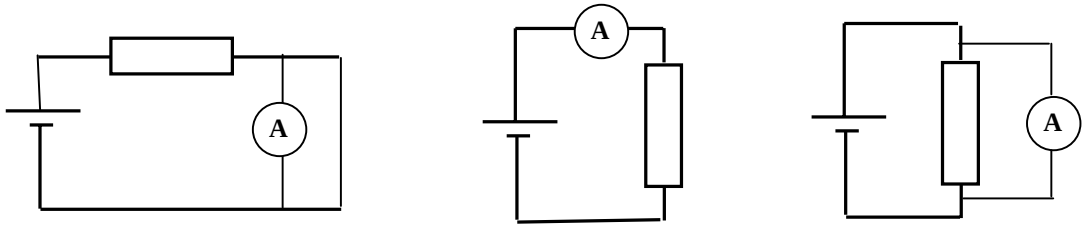
Electricity Post-Test

Name: _____ **Teacher:** _____

(1) A circuit is formed by connecting a resistor across a 9V battery, as shown in the figure. If a current of 4.5mA (i.e 0.0045A) flows through the resistor, then what must its resistance be?  **(a)** 2Ω **(b)** 4.5kΩ **(c)** 2kΩ	How confident are you of your answer? ☐ 1: Not at all confident ☐ 2: Not confident ☐ 3: Somewhat confident ☐ 4: Confident ☐ 5: Very confident
(2) A circuit is formed by connecting a resistor across a battery. If we want to measure the voltage across the resistor, which of the following diagrams shows the correct way of connecting a voltmeter to the circuit? **(a)** **(b)** **(c)** 	How confident are you of your answer? ☐ 1: Not at all confident ☐ 2: Not confident ☐ 3: Somewhat confident ☐ 4: Confident ☐ 5: Very confident
(3) A circuit is formed by connecting a resistor across a battery. If we want to measure the current flowing through the resistor, which of the following diagrams shows the correct way of connecting an ammeter to the circuit?  **(a)** **(b)** **(c)**	How confident are you of your answer? ☐ 1: Not at all confident ☐ 2: Not confident ☐ 3: Somewhat confident ☐ 4: Confident ☐ 5: Very confident