Name _____ **Date** _____

West Islip Technology Department **Period** _____

Introduction to Ohm's Law

- _____ is a mathematical relationship between current (I), voltage (E), and resistance (R), discovered by _____.

- Ohm's law states that the _____ measured in amperes (I) in a circuit is _____ to the applied voltage (E) _____ by the resistance (R).

- Ohm's law is expressed in three formulas below.

    - _____
        - This formula is used to determine that applied voltage is equal to the current multiplied by the resistance.

    - _____
        - This formula is used to determine that current is equal to applied voltage divided by the resistance

    - _____
        - This formula is used to determine that resistance is equal to the applied voltage divided by the current.

- Ohm's law can be applied easily by using the memory device below.