RED DEER Year 5/6 Knowledge Organiser – Electricity –Summer 2

Skills

- Investigating the effect of adding more bulbs to a circuit
- Investigating the effect of adding more cells to a circuit
- Investigating the effect of adding more buzzers to a circuit
- Investigating the effect of adding more motors to a circuit
- Make circuits using a different number of components (draw circuit diagrams using conventional symbols)
- Explore different types of switches and their suitability for different purposes

Knowledge

- Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
- Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches
- Use recognised symbols when representing a simple circuit in a diagram

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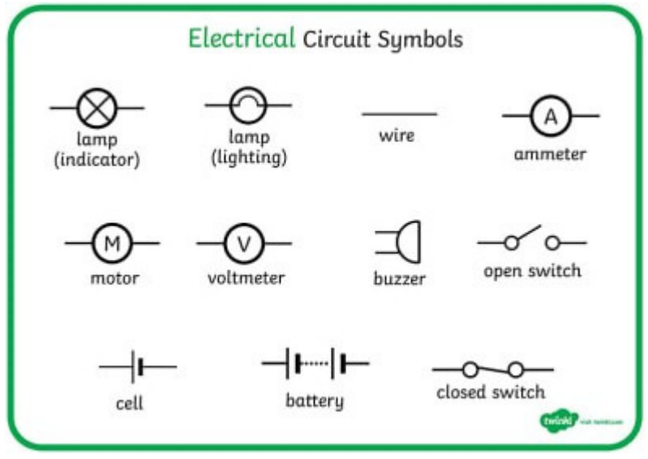
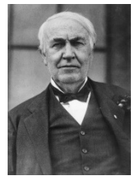
Key vocabulary	
circuit	*a closed loop for electricity to travel around*
component	*a part used in an electrical circuit*
electricity	*a form of energy caused by electrons moving*
cell (battery)	*a stored source of electricity*
switch	*a switch turns an electrical circuit on or off by completing or breaking the circuit*
conductor	*an object that allows electricity to flow through it easily (objects made of metal are good conductors)*
insulator	*an object that does not allow electricity to flow through it easily*
circuit symbols	*see diagram*
voltage	*a force that makes electricity flow through a wire (it is measured in volts)*
motor	*a machine that turns electrical energy into movement*

FACTS
We use scientific symbols to represent the components (parts) of a circuit.
The brightness of a bulb or the loudness of a buzzer is affected by the number of cells in a circuit.
The brightness of a bulb or the loudness of a buzzer is affected by the voltage of cells in a circuit.
The number of components in a circuit can affect how they function.
The arrangement of components in a circuit can affect how they function.
The length of wires in a circuit can affect how the components function.





Thomas Edison
- 1847 -
1931