



We are Electric: Autumn 2

Key texts

Picture Perfect

Serena Patel



Opportunities/ Experiences

Bricks 4 Kids



Vocabulary

Electrical system: this is a group of parts (components) that work together

Target Audience: the group of people that a product or service will be most suitable for.

Design Criteria: The goals that a product must achieve to be successful.

D.T

Music

Science

Products use **electrical systems** to function.

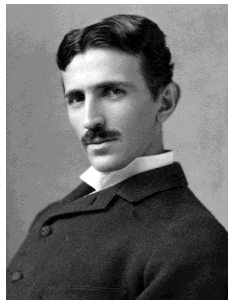
To understand and identify some of the common features of an electric product.

To know that an electrical circuit must be complete for electricity to flow.

To know that a **switch** can be used to complete and break an electrical circuit.

Designers choose different materials to decide whether they are conducting or insulating.

Nikola Tesla was an Serbian American inventor, best known for the design of the modern alternating current (AC)



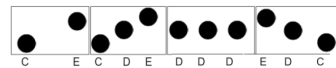
Improvising means inventing music 'on the spot' using your voice, body or an instrument.

Musicians make up the music as they sing or play.

A **composer** is somebody who writes music. Anybody can be a composer.

You can **compose** music in different ways:

- Change the structure of somebody else's music
- Combine ideas from several different pieces of music
- Compose your own piece of music completely



The arrangement of dot notation shows how the pitch changes.

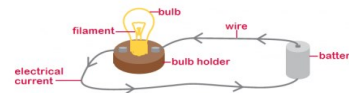


Different notes have different values—this means that some need to be played for longer than others.



Common appliances run on electricity.

A simple series electrical circuit has basic parts including cells, wires, bulbs, switches, and buzzers.



A circuit must contain a complete loop with a battery and this affects whether a lamp lights or not.

A switch opens and closes a circuit and this affects whether a lamp lights or not in a simple series circuit.

Name common conductors and insulators. Metals with are good conductors.



Rhythm and tempo: Downbeats, fast (*allegro*), slow (*adagio*), pulse, beat, getting faster, getting slower

Dynamics: Loud (*forte*), quiet (*piano*), getting louder (*crescendo*), getting softer (*decrescendo*)

Texture: Unison, layered, solo duet, melody and accompaniment

Electricity- a flow of electric current through a material.

Main's electricity- electricity supplied through wires to a building.

Electrical conductor- a material that allows electricity to flow through it.

Electrical insulator- materials that do not allow electricity to flow through it.

Appliances- Equipment or device designed to perform a particular job e.g. washing machine.

Battery- a device that stores electrical energy.

Circuit- a pathway that electricity can flow around.