

Year 4 Knowledge Organiser - Create a buzz!



DT

Vocabulary

Key Vocabulary	Definition
circuit	A complete and closed path around which a circulating electric current can flow.
design brief	The steps that you need to create and finish a project
buzzer	An electrical device that makes a buzzing noise and is used for signalling
light	The natural agent that stimulates sight and makes things visible.
electrical	Concerned with, operating by, or producing electricity.
component	A part or element of a larger whole, especially a part of a machine or vehicle.
Exploded diagram	A diagram which shows how a product can be assembled and how the separate parts fit together, with dotted lines showing where the parts slide into place .
specification	A detailed description of how something should be done or made .

Key Questions

- Why are electronics included in games?
- How do buzzers work?
- When did electronics start being used in games?

Key Engineer

Joseph Henry

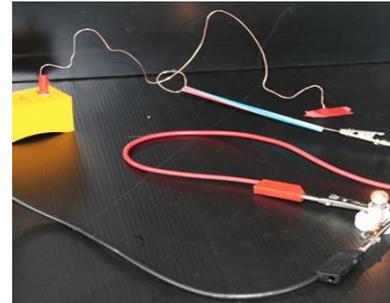
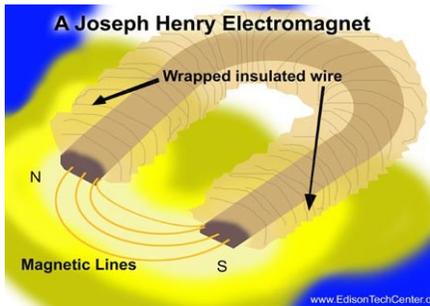
1797-1878



Key Facts

- Henry aided and discovered several important principles of electricity, including self-induction, which was very important in electronic circuitry.
- In 1831 Henry built and successfully operated, over a distance of 2.4 km (1.5 miles), a telegraph of his own design.
- He greatly increased the power of the magnet by wrapping a large number of turns of wire around the core
- His powerful discoveries on electromagnetism Samuel enabled Morse to invent the telegraph.
- In 1826 he was appointed as the Professor of Mathematics and Natural Philosophy, at The Albany Academy
- Henry brought into being the fact that when an electromagnet using just two electrodes is attached to a battery, it is best to wind several coils of wire in parallel.
- Henry created one of the first machines that used electromagnetism for motion.
- He is known for his invention of a precursor to the electric doorbell and electric relay.

Work Examples



Timeline

Joseph Henry 1797-1878	Henry Ford 1863-1947	Ikea 1943- present	Michele Walker 1947- present	Matthew Reinhart 1971-present	Nadiya Hussain 1984-present
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