

Science Knowledge Building

Understand how the brightness of a bulb or volume of a buzzer is affected when components are changed	Understand why it can be beneficial to use lower voltage bulbs in certain situations	Understand how a circuit can be improved to make it more efficient or produce more power	Use a wider range of vocabulary related to electricity, including interpreting symbols used in circuit diagrams	Know about renewable and non-renewable energy sources and give pros and cons for their use	Know how electricity gets to our homes and school and how it is measured
Know that the brightness of a bulb or volume of a buzzer can be changed by altering components	Know how to construct a circuit and introduce a larger number of or higher voltage of cells to make a bulb brighter	Understand why some circuits work better than others by analyzing the components being used	Know and understand the terms 'voltage' and 'circuit diagram'	Know about ways of producing energy that have a better global impact	Understand how STEM has an impact on developing energy sources and consider ways of making their own energy sources
Understand that numerous factors can affect or prevent change	Know what makes a good methodology and explain how adaptations can lead to improvements	Identify, analyse and explain findings to support or dismiss theories or arguments	Know how to use a range of scientific vocabulary in various contexts	Know that science has implications for world issues and that it can be used for good or bad	Understand how their own STEM skills can benefit future science work in school and beyond
Processes and Changes	Methods	Observing and Recording	Scientific Vocabulary	Uses and Implications	Cross-Curricular (STEM)

Full of Beans