UNIVERSITY OF CAMBRIDGE PRIMARY SCHOOL

Energy

Year 3 | Summer 1

CURRICULUM SPOTLIGHT: Computing | Design & Technology

ENQUIRY

Where does energy come from?

OUTCOMES

Science fair about different forms of energy and their sources

VOCABULARY

Science: electricity, circuit, switch, battery, plug, mains, appliance, device, wire, crocodile clip, bulb, buzzer, connection, power, cell, renewable, fossil fuels, wind turbine

KEY TEXTS

The Big Book of Science Ideas
Oscar and the Bird: A Book about Electricity
The Boy who harnessed the Wind
Horrible Science: Shocking Electricity

BACKGROUND KNOWLEDGE

http://www.cees.org.uk/cms/uploads/pdfs/EnergyWorksTeacherPackKS2.pdf
Electricity (Straight Forward with Science) (2018)
https://www.youtube.com/watch?v=Q0LBegPWzrg
https://www.youtube.com/watch?v=qfdrmQmKqLo

RESOURCES

Wires, fans, crocodile clips, bulbs, buzzers, motors, batteries, battery packs

English	Mathematics	Physical Education	D&T
Spelling - Phonemes: i, ie, er, or, k **Grammar** - Paragraphs - Inverted commas - Past and present tense - Varying pronouns	**Fractions** - Preparing for fractions - Unit and non-unit fractions - Adding and subtracting fractions within a whole	**Physical** - Agility- reaction and response - Static balance- floor work - Tennis	**Energy** - To begin to use simple electrical circuits and components to create functional products.

PSCHE and PRE	Spanish	Art
PSHCE - Personal safety **PRE** - Sikhism - festivals	**History** Ancient Britain	**Printing** ▪ Design and create a repeated relief print considering background paper ▪ Use sketchbooks to explore and develop prints making changes where needed ▪ Understand the difference between repeat printing and mono printing

Computing	Science
Coding - Understand that algorithms are clear instructions - Create describe and debug algorithms - Code a program to achieve a sequential algorithm.	**Electricity** - Identify common appliances that run on electricity - Construct a simple series electrical circuit, identifying and naming its basic parts - Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. - Recognise some common conductors and insulators