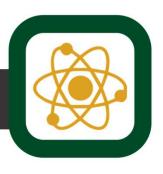
# LEARNING JOURNEY Physics



## **ENERGY CRISIS!**

# Year 9 Spring Term

Energy is at the heart of physics, and the transfers between different energy stores are the basis of many important processes in science.

You will learn to use formulae which relate the various energy stores to each other in terms of Joules of energy, and use practical investigations to verify important facts.

Energy connects to many other areas of science including electricity and electromagnetic waves.

### **Energy Stores**

You will build on what vou learned at KS3. identifying energy stores and transfers.

#### Conservation of Energy

You will learn that energy can never be created or destroyed, but transferred annumannum Line

#### Power

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You will define power and work in terms of energy, and calculate work done in energy transfers

#### **Energy Efficiency**

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You will learn to calculate the efficiency of energy transfers in different devices.

#### Non-Renewables

You will learn about the benefits and problems associated with non-renewable energy resources

#### Renewables

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You will learn about the benefits and problems associated with renewable energy resources

#### Meeting Demand

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You will use data to learn about how electricity demand depends on a range of issues.

#### The National Grid

You will learn about the key features of the National Grid and the reasons for its use.

**TUDOR HABITS AND VALUES:** Show grit and courage as you attempt increasingly complex calculations using various formulae and units to solve challenging questions.

VOCABULARY Energy Store, Dissipate, Renewable, Efficiency, Power

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