

Unit Overview – Energy

Target grade for tests:



You will learn about:

- All the changes involved in the way energy is stored when a system changes.
- The amount of energy associated with a moving object, a stretched spring and an object raised above ground level.
- Renewable and non-renewable energy sources.

You will be able to:

- Evaluate methods and suggest possible improvements and further investigations.
- Explain patterns and trends in the use of energy resources.

Key learning points		Key Words
Potential energy		Energy Joules Kinetic Gravitational potential Chemical Power Watts Closed system Wasted energy Useful energy Efficiency Dissipated Renewable Non-renewable National Grid
Kinetic energy		
Work done		
Energy transfer		
Power		
Specific heat capacity and required practical		
Dissipation of energy and energy efficiency		
Energy resources and global supplies		
Links to other subjects:		
SMSC		
Show that science has the ability to identify environmental issues arising from the use of energy resources but not always the power to deal with the issues because of political, social, ethical or economic considerations.		
Numeracy		
Rearranging equation. Substituting numerical values into equations using appropriate units. Interpretation of graphs.		
Literacy		
Describe observations in practical work.		