

SEAI Junior Cycle Resources

This document sets out the **Science** learning outcomes for each of the activities in the section **What is Energy**.

E&S6 Students should be able to research different energy sources; formulate and communicate an informed view of ways that current and future energy needs on Earth can be met.
Activity 1,5,6, 7&8: PW6 Students should be able to explain energy conservation and analyse process in terms of energy changes and dissipation Activity 2,3 &4: E&S6 Students should be able to research different energy sources; formulate and communicate an informed view of ways that current and future energy needs on Earth can be met.
Activity 3: PW7 Students should be able to design, build, and test a device that transforms energy from one form to another in order to perform a function; describe the energy changes and ways of improving efficiency
PW8 Students should ebable to research and discuss the ethical and sustainability issues that arise from our generation and consumption of electricity
E&S6 Students should be able to research different energy sources; formulate and communicate an informed view of ways that current and future energy needs on Earth can be met
 PW2: Students should be able to identify and measure/calculate length, mass, time, temperature, area, volume, density, speed, acceleration, force, potential difference, current, resistance, electrical power PW3 Students should be able to investigate patterns and relationships between physical observables NoS3 Students should be able to design, plan and conduct investigations; explain how reliability, accuracy, precision, fairness, safety, ethics, and selection of suitable equipment have been considered NoS4 Students should be able to produce and select data (qualitatively/quantitatively), critically analyse data to identify natterns and relationships.

NoS = Nature of Science, E&S = Earth & Space, CW = Chemical World, PW = Physical World, BW = Biological World