

SEAI Junior Cycle Resources

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

Heat Energy and Temperature	<p>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</p> <p>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</p> <p>NoS4 Students should be able to produce and select data (qualitatively/quantitatively), critically analyse data to identify patterns and relationships, identify anomalous observations, draw and justify conclusions</p>
Heat Transfer by Conduction	
Heat Transfer by Convection	
Heat Transfer by Radiation	<p>Activity3: E&S7 Students should be able to illustrate how earth processes and human factors influence the Earth's climate, evaluate effects of climate change and initiatives that attempts to address those effects</p>
Solar Energy	<p>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</p>
Retaining Heat Energy	<p>PW6 Students should be able to explain energy conservation and analyse processes in terms of energy changes and dissipation</p> <p>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</p> <p>NoS4 Students should be able to produce and select data (qualitatively/quantitatively), critically analyse data to identify patterns and relationships, identify anomalous observations, draw and justify conclusions</p>
<p>NoS = Nature of Science, E&S = Earth & Space, CW = Chemical World, PW = Physical World, BW = Biological World</p>	