



Keeping Warm Year 5

Learning outcomes with context

- Use a thermometer to make careful measurements
- To understand that the temperature of an object will change to that of its surroundings
- To understand the importance of insulation
- To explore materials which may be used as an insulator
- Describe the features of a good insulator

Learning outcomes without context

- To plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- To take measurements, use a range of scientific equipment, with increasing accuracy and precision, take repeat readings when appropriate
- To record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- To use test results to make predictions to set up further comparative and fair tests
- To report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- To draw conclusions based on their data and observations, use evidence to justify their ideas, and use their scientific knowledge and understanding to explain their findings
- Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make

Key vocabulary children should know by the end of the topic

Thermal insulator	A material that doesn't let heat pass through it.
Thermal conductor	A material that lets heat pass through it.
Insulate	To keep heat in.
Conduct	When heat travels through a material.