

Simple Solutions Level 6 Science Topic Guide

The science topics listed below are introduced and systematically re-visited throughout Level 6 and in subsequent *Simple Solutions* Science books. *Mini Teachings* and diagrams imbedded in the lessons give students the information they need to complete the items independently. Also, the Help Pages – found in the back of each book – provide a research reference guide which includes vocabulary, animal and ecosystem fact cards, and important charts or diagrams.

Topic	Lesson
The Scientific Method <i>Mini Teachings</i>	1 – 6
Cells <i>Mini Teachings</i>	7 – 10
Organs and Organ Systems <i>Mini Teachings</i>	11 – 12
Reproduction and Heredity <i>Mini Teachings</i>	13 – 18
Gregor Mendel and Heredity <i>Mini Teachings</i>	20 – 21
Variation <i>Mini Teaching</i>	22
Mutation <i>Mini Teaching</i>	23
Classification <i>Mini Teachings</i>	24 – 27
Plant Reproduction <i>Mini Teaching</i>	28
Environment <i>Mini Teaching</i>	29
Ecosystems <i>Mini Teachings</i>	30 – 32
Food Chains and Food Webs <i>Mini Teachings</i>	33 – 35, 40
Land Biomes <i>Mini Teachings</i>	36 – 39
Minerals <i>Mini Teachings</i>	41 – 43, 93
Rocks and the Rock Cycle <i>Mini Teachings</i>	44 – 46
The Water Cycle <i>Mini Teachings</i>	48 – 49
Weather <i>Mini Teachings</i>	50 – 53
Severe Weather <i>Mini Teachings</i>	56 – 58
Earth’s Rotation and Revolution <i>Mini Teachings</i>	60 – 61
The Moon and its Phases <i>Mini Teachings</i>	64 – 67

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Topic	Lesson
Atoms <i>Mini Teachings</i>	72 – 73
The Periodic Table <i>Mini Teachings</i>	74 – 75
Elements and Compounds <i>Mini Teaching</i>	76
States of Matter <i>Mini Teachings</i>	78 – 81
Properties of Matter <i>Mini Teachings</i>	82 – 84
Density <i>Mini Teaching</i>	88
Mixtures, Solutions, and Suspensions <i>Mini Teaching</i>	91
Kinetic Energy and Potential Energy <i>Mini Teaching</i>	94
Energy Transformation <i>Mini Teachings</i>	96, 98
Temperature <i>Mini Teachings</i>	99 – 100
Transfer of Thermal Energy <i>Mini Teachings</i>	101 – 102
Waves: Light and Sound <i>Mini Teachings</i>	104 – 107
Light: Reflection, Refraction, and Diffraction <i>Mini Teaching</i>	109
Light: Transparent, Translucent, and Opaque <i>Mini Teaching</i>	110
Electricity <i>Mini Teachings</i>	111 – 112
Renewable and Non-renewable Resources <i>Mini Teaching</i>	113
Motion: Speed and Velocity <i>Mini Teaching</i>	116
Motion: Newton’s Laws <i>Mini Teachings</i>	117 – 119
Using a Dichotomous Key <i>Mini Teaching</i>	126

Science Inquiry is embedded in multiple lessons: reading and interpreting simple graphs, tables and graphic organizers, recording information in graphic organizers, classifying information, and communicating data through images and graphic organizers.