

Simple Solutions® Level 5 Science Topic Guide

The science topics listed below are introduced and systematically re-visited throughout Level 5 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 as well as other important charts or diagrams.

Topic	Lesson
The Scientific Method <i>Mini Teachings</i>	1 – 6, 9, 11
Food Chains and Food Webs <i>Mini Teachings</i>	5, 7, 12
The Flow of Energy from the Sun <i>Mini Teachings</i>	8, 10, 12
(Photosynthesis, Producers, Consumers, and Decomposers)	
Identifying Variables in an Experiment <i>Mini Teachings</i>	9, 11
Animal Cell and Plant Cell <i>Mini Teachings</i>	13 – 14, 16
Classification of Organisms <i>Mini Teachings</i>	15 – 17
Ecosystems <i>Mini Teaching</i>	18
Living Things Interact with the Environment <i>Mini Teaching</i>	20
Organisms Cause Change <i>Mini Teaching</i>	23
Abiotic Factors Cause Change <i>Mini Teaching</i>	24
Processes that Shape the Earth <i>Mini Teaching</i>	27
Fossils <i>Mini Teaching</i>	29
Rocks and Minerals, Soil <i>Mini Teachings</i>	30 – 35, 37
Models, Demonstrations, and Experiments <i>Mini Teaching</i>	38
Water Cycle <i>Mini Teachings</i>	39 – 42
Characteristics of Planet Earth <i>Mini Teachings</i>	49 – 50
Earth’s Atmosphere <i>Mini Teaching</i>	50
Weather & Climate <i>Mini Teachings</i>	53 – 55, 57 – 60
Matter (States, Properties, Phase Change) <i>Mini Teachings</i>	61 – 69
Mixtures and Solutions <i>Mini Teachings</i>	70 – 71
Physical / Chemical Change <i>Mini Teachings</i>	73 – 74

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Topic	Lesson
Law of Conservation of Matter <i>Mini Teaching</i>	75
Forms of Energy <i>Mini Teachings</i>	77 – 79
(Electrical, Heat, Light, Mechanical)	
Transfer of Thermal Energy <i>Mini Teachings</i>	81, 86 – 87
Geothermal Energy <i>Mini Teaching</i>	83
Heat & Temperature <i>Mini Teaching</i>	84
Renewable and Non-renewable Resources <i>Mini Teachings</i>	89 – 92
Atoms and Molecules <i>Mini Teachings</i>	94 – 95
Travel of Electrical Currents <i>Mini Teachings</i>	97 – 100
Simple Circuits <i>Mini Teachings</i>	101 – 103
Magnetism <i>Mini Teaching</i>	105
Sound <i>Mini Teachings</i>	107, 112
Refraction / Reflection of Light <i>Mini Teaching</i>	109
Force and Motion <i>Mini Teachings</i>	114 – 115
Newton’s Laws of Motion <i>Mini Teachings</i>	118 – 119, 122 – 123
The Solar System <i>Mini Teachings</i>	127, 130 – 131
Contributions of Prominent Scientists <i>Mini Teachings</i>	21, 44, 93, 121

Science Inquiry is imbedded 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.