



Layers of Learning Science Correlation

LoL Year 1	DK Encyc. of Science	Kingfisher Encyclopedia	Khan Academy
Unit 1 Planets	Pgs. 273-275, 283, 286-293, 418	Pgs. 386-391, 398-399, 403-411	Scale of the Universe
Unit 2 Stars	Pgs. 276-285, 418-419	Pgs. 392-397	Stars, Black Holes, and Galaxies
Unit 3 Earth & Moon	Pgs. 287-288, 414	Pgs. 400-402	Earth Geological and Climatic History
Unit 4 Satellites	Pgs. 294-295, 300-301	Pgs. 412-419, 424-425	History of Life on Earth
Unit 5 Humans in Space	Pgs. 296-299, 302-304	Pgs. 420-423	Life in the Universe
Unit 6 Laws of Motion	Pgs. 113-120	Pgs. 296-299	Newton's Laws of Motion
Unit 7 Motion	Pgs. 121-125	Pgs. 290-291, 322-325	Centripetal Force and Gravitation
Unit 8 Fluids	Pgs. 127-129	Pgs. 310-311	Fluids
Unit 9 Waves	Pgs. 126, 164, 178-192, 412	Pgs. 312-321	Simple Harmonic Motion
Unit 10 Machines	Pgs. 130-133	Pgs. 300-305	Inclined Planes and Friction, Simple Machines Exploration
Unit 11 States of Matter	Pgs. 17-23	Pgs. 156-157, 194-195	States of Matter
Unit 12 Atoms	Pgs. 24-25	Pgs. 150-151	Introduction to the Atom
Unit 13 Elements	Pgs. 31-48, 402-403	Pgs. 148-149, 152-155	Periodic Table
Unit 14 Bonding	Pgs. 28-30	Pgs. 164-169	Types of Chemical Bonds, Dot Structures
Unit 15 Salts	Pgs. 26-27, 73	Pg. 165	Radioactive Decay, Solubility Equilibria
Unit 16 Plants	Pgs. 340-341	Pgs. 56-57, 66-67	Intro to Photosynthesis, Plant Structure
Unit 17 Flowering Plants	Pgs. 318-319	Pgs. 59-63	Phototropism
Unit 18 Trees	Pgs. 317	Pgs. 64-65	Plant nutrition and transport
Unit 19 Simple Plants	Pgs. 316	Pg. 58	Protists
Unit 20 Fungi	Pgs. 315	Pg. 55	Fungi

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LoL Year 2	DK Encyc. of Science	Kingfisher Encyclopedia	Khan Academy
Unit 1 Climate & Seasons	Pgs. 241-249, 417	Pgs. 36-37	Earth Rotation and Tilt
Unit 2 Forecasting	Pgs. 250-256, 270-272, 416-417	Pgs. 42-43	The Sun and Solar Storms
Unit 3 Clouds & Precipitation	Pgs. 260-268	Pgs. 38-41	Clouds
Unit 4 Special Effects	Pg. 269		
Unit 5 Wild Weather	Pgs. 257-259	Pgs. 44-45, 330-331	
Unit 6 Cells & DNA	Pgs. 338-339, 364-365	Pgs. 98-99, 135	Intro to Cells and DNA
Unit 7 Skeletons	Pgs. 352-353	Pgs. 102-105	Skeletal System
Unit 8 Muscles, Skin, & Cardiopulmonary	Pgs. 346-349, 354-357	Pgs. 100-101, 106-107, 111, 120-125	Circulatory System, Respiratory system
Unit 9 Digestive & Senses	Pgs. 342-345, 358-359	Pgs. 112-117, 126-131	Gastrointestinal System
Unit 10 Nerves	Pgs. 360-361	Pgs. 108-110	Nervous System
Unit 11 Health	Pgs. 350-351, 362-363, 366-368	Pgs. 118-119, 132-134, 136-139-142	Reproductive System
Unit 12 Metals	Pgs. 34-39, 56-57, 62-63, 84-88	Pgs. 183, 196-203	Molecular Composition
Unit 13 Carbon Chemistry	Pgs. 40-41	Pgs. 170, 174-175	Properties of Carbon
Unit 14 Non-metals	Pgs. 40-48	Pgs. 181-182	Names and Formulas of Ionic Compounds
Unit 15 Gases	Pgs. 50-51, 404	Pgs. 171, 179-180, 358-359	Ideal Gas Equation
Unit 16 Electricity	Pgs. 145-151, 410-411	Pgs. 338-339, 360-367	Electric Charge, Field, and Potential
Unit 17 Circuits	Pgs. 152-153	Pgs. 340-341	Ohm's Law and Circuits with Resistors
Unit 18 Technology	Pgs. 160-176	Pgs. 228-239, 374-383	Circuits with Capacitors
Unit 19 Magnetism	Pgs. 154-157	Pgs. 342-345	Magnets & Magnetic Force
Unit 20 Motors	Pgs. 158-159	Pgs. 346-347	Magnetic Field Created by a Current, Electric Motors

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LoL Year 3	DK Encyc. of Science	Kingfisher Encyclopedia	Khan Academy
Unit 1 Classification & Insects	Pgs. 305-311, 322-323, 420-421-423	Pgs. 50-54, 70-77	Speciation and Evolutionary Trees, How Entomologists...
Unit 2 Reptiles & Amphibians	Pgs. 328-331	Pgs. 80-83	Metabolism and Thermoregulation
Unit 3 Fish	Pgs. 326-327	Pgs. 78-79	Energy in Metabolism
Unit 4 Birds	Pgs. 332-333	Pgs. 84-85	Introduction to Enzymes
Unit 5 Mammals & Primates	Pgs. 334-336	Pgs. 86-91	Development and Differentiation
Unit 6 Sound	Pgs. 177-189, 413	Pgs. 368-373	Sound
Unit 7 Light & Optics	Pgs. 190-193, 413	Pgs. 260-261, 280-287	Electromagnetic Waves and Interference
Unit 8 Bending Light	Pgs. 194-201	Pgs. 262-271	Geometric Optics
Unit 9 Color	Pgs. 202-205	Pgs. 272-279	Color Science and Spectrum of Light (first two videos)
Unit 10 History of Science	Pgs. 10-16	Pgs. 146-147, 426-431	From Alchemy to Chemistry, Francis Bacon and the Scientific Revolution, Scientific Method and the Age of Enlightenment, and Scientific Method
Unit 11 Igneous Rocks	Pgs. 221-222, 415	Pgs. 24-25, 28	Rock Cycle
Unit 12 Sedimentary Rocks	Pgs. 223, 415	Pgs. 30-31	
Unit 13 Metamorphic Rocks	Pgs. 224, 415	Pg. 29	
Unit 14 Gems & Minerals	Pgs. 221, 415, 415	Pgs. 26-27	
Unit 15 Fossils	Pgs. 225-231	Pgs. 4-7	Dinosaur Fossils
Unit 16 Chemical Reactions	Pgs. 49, 52-53, 405	Pgs. 162-163, 176-177	Ions and Compounds, Balancing Chemical Equations
Unit 17 Reversible Reactions	Pgs. 54-57		Types of Chemical Reactions
Unit 18 Compounds & Solutions	Pgs. 58-63	Pgs. 158-161	Mixtures & Solutions
Unit 19 Oxidation & Reduction	Pgs. 64-67	Pg. 178	Oxidation & Reduction
Unit 20 Acids & Bases	Pgs. 68-72	Pgs. 184-186	Acids, Bases, and pH

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LoL Year 4	DK Encyc. of Science	Kingfisher Encyclopedia	Khan Academy
Unit 1 Heat & Temperature	Pgs. 140-142, 408	Pgs. 242-259	Temperature, Kinetic Theory, and the Ideal Gas Law
Unit 2 Motors & Engines	Pgs. 143-144	Pgs. 224-229, 304-305	Laws of Thermodynamics
Unit 3 Energy	Pgs. 132-133, 409	Pgs. 292-295	Work and Energy
Unit 4 Energy Sources	Pgs. 134-137	Pgs. 328-331, 348-351	Nova Labs: Energy
Unit 5 Energy Conversion	Pgs. 138-139	Pgs. 306-309, 352-357	Springs & Hooke's Law
Unit 6 Earth Structure	Pgs. 209-213	Pgs. 2-13	Structure of the Earth
Unit 7 Plate Tectonics	Pgs. 214-215	Pgs. 14-17	Plate Tectonics
Unit 8 Earthquakes	Pg. 220	Pgs. 20-21	Earthquakes
Unit 9 Volcanoes	Pgs. 216-217	Pgs. 18-19	Volcanoes
Unit 10 Mountain Building	Pgs. 218-219	Pgs. 22-23	
Unit 11 Chemistry of Air & Water	Pgs. 74-75	Pgs. 172-173	Hydrogen Bonding in Water
Unit 12 Food Chemistry	Pgs. 76-80, 92-93	Pgs. 188-189	Macromolecules
Unit 13 Industry	Pgs. 81-90, 92-103, 106-112, 407	Pgs. 187, 190-191, 204-227	Naming Alkanes
Unit 14 Chemistry of Farming	Pg. 91	Pgs. 448-449	Reaction Rates
Unit 15 Chemistry of Medicine	Pgs. 104-105	Pg. 140	Antibiotics and Antibiotic Resistance
Unit 16 Food Chains	Pgs. 369-373, 377	Pgs. 434-435	Intro to Ecology, Intro to Community Ecology
Unit 17 Animal Groups	Pgs. 378-379	Pgs. 94-95	Intro to Population Ecology and Population Growth and Regulation
Unit 18 Instincts	Pgs. 380-381	Pg. 93	Animal Behavior
Unit 19 Habitats	Pgs. 382-397	Pgs. 68-69, 436-441	Community Structure and Diversity
Unit 20 Conservation	Pgs. 374-376, 398-400, 424-425	Pgs. 442-447, 450-463	Biodiversity and Conservation

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