

K-12 Science Content Areas

100 Nature of Science
200 Science and Technology
300 Science, Health, and Environment
400 Measurement and Calculation in Science
500 Components of Living Systems
600 Biochemistry
700 Botany
800 Animal Biology
900 Human Biology
1000 Genetics
1100 Evolution
1200 Reproduction and Development
1300 Ecology
1400 Energy

1500 Motion and Forces
1600 Electricity
1700 Waves
1800 Kinetics and Equilibrium
1900 Properties of Matter
2000 Earth Systems
2100 Astronomy
2200 Meteorology
2300 Elements and the Periodic System
2400 Chemical Formulas and Reactions
2500 Acids, Bases, and Salts
2600 Organic Chemistry
2700 Nuclear Chemistry

100	Nature of Science	700	Botany
101	Nature and Structure of Science	701	Nutrition/Photosynthesis
102	Nature of Scientific Inquiry/Method	702	Circulation
103	Scientific habits of mind, logic and reasoning	703	Respiration
104	Issues of diversity, culture, gender in science	704	Growth/development/behavior
105	History of scientific innovations	705	Health & disease
106	Ethical Issues/Critiques of Science	706	Structure & Function
190	Other	790	Other
200	Science & Technology	800	Animal Biology
201	Tech. benefits, trade-offs and consequences	801	Nutrition
202	Relationship btwn. sci. inquiry & tech. design	802	Circulation
203	Science tools, lab safety	803	Excretion
204	Design or implement a solution or product	804	Respiration
290	Other	805	Growth/development/behavior
300	Science, Health & Environment	806	Health & disease
301	Personal health, behavior, disease, nutrition	807	Structure & Function
302	Envrn. health, pollution, waste disposal	808	Skeletal & muscular system
303	Acid rain	809	Nervous & endocrine system
304	Ozone depletion	810	Habitat
305	Resources, conservation	890	Other
306	Toxic & nuclear waste	900	Human Biology
307	Greenhouse effect	901	Nutrition/Digestive System
308	Natural and Human-caused hazards	902	Circulatory System (Blood)
390	Other	903	Excretory System
400	Measurement & Calculation in Science	904	Respiration & Respiratory System
401	The International System	905	Growth/development/behavior
402	Mass & Weight	906	Health & disease/immune system
403	Length	907	Skeletal & muscular system
404	Volume	908	Nervous & endocrine system
405	Time	990	Other
406	Temperature	1000	Genetics
407	Accuracy & Precision/Estimation	1001	Mendelian Genetics
408	Significant Digits	1002	Modern Genetics
409	Derived Units	1003	Inherited diseases
410	Conversion Factors	1004	Biotechnology
411	Density	1005	Human Genetics
490	Other	1006	Transcription/translation
500	Components of Living Systems	1007	Mutation
501	Cell structure/function	1090	Other
502	Cell Theory	1100	Evolution
503	Transport of cellular material	1101	Evidence for Evolution
504	Cell metabolism	1102	Lamarckian Theories
505	Cell response	1103	Modern Evolutionary Theory
506	Cellular respiration	1104	Life Origin Theories
507	Cell Specialization	1105	Human Evolution
508	Organs	1106	Classification
509	Organ Systems	1107	Causes
510	Microbiology	1108	Natural Selection
590	Other	1190	Other
600	Biochemistry	1200	Reproduction & Development
601	Living Elements (C, H, O, N, P)	1201	Mitotic/Meiotic Cell Division
602	Atomic Structure & Bonding	1202	Asexual Reproduction
603	Synthesis Reactions (Proteins)	1203	Inherited Traits
604	Hydrolysis	1204	Reproduction & Development in Plants
605	Organic Compounds: Carbon, Proteins, Nucleic/Amino Acids, Enzymes	1205	Reproduction & Development in Animals
690	Other	1206	Reproduction & Development in Humans
		1290	Other

1300	Ecology
1301	Food Webs / Chains
1302	Competition & Cooperation
1303	Energy Flow Relationships
1304	Biotic & Abiotic Factors
1305	Ecological Succession
1306	Ecosystems
1307	Population Dynamics
1308	Environmental Chemistry
1309	Adaptation & Variation / Niche
1310	Populations
1390	Other
1400	Energy
1401	Potential Energy
1402	Kinetic Energy
1403	Conservation of Mass/Energy
1404	Heat Energy & Transfer
1405	Light Energy
1406	Sound Energy
1407	Laws of thermodynamics & entropy
1408	Work & Energy
1409	Mechanical Energy & Machines
1410	Nuclear Energy
1490	Other
1500	Motion & Forces
1501	Vector & Scalar Quantities
1502	Displacement as a vector quantity
1503	Velocity as a vector quantity
1504	Relative position & velocity
1505	Acceleration
1506	Newton's First Law
1507	Newton's Second Law
1508	Newton's Third Law
1509	Momentum, Impulse and Conservation
1510	Equilibrium
1511	Friction
1512	Universal Gravitation
1590	Other
1600	Electricity
1601	Static Electr.(production/transfer/distribution)
1602	Coulomb's law
1603	Electric fields
1604	Current electricity
1605	Current, Voltage, & Resistance
1606	Series & Parallel Circuits
1607	Magnetism
1608	Effects of interacting fields
1609	Conductors, insulators
1690	Other
1700	Waves
1701	Characteristics and behavior
1702	Visible Light (direction/speed/transformation)
1703	Non-visible Light/Electromagnetic Spectrum (e.g. ultraviolet, infrared)
1704	Sound (e.g. direction, speed, transformation)
1705	Earthquakes, Tsunamis, Ocean Waves
1790	Other

1800	Kinetics and Equilibrium
1801	Molecular motion
1802	Pressure
1803	Kinetics and temperature
1804	Equilibrium
1805	Reaction Rates
1890	Other
1900	Properties of Matter
1901	Characteristics & composition
1902	Elements, molecules & compounds
1903	States of matter (S-L-G-P)
1904	Solutions & Mixtures
1905	Physical & Chemical Changes
1906	Physical & Chemical Properties
1907	Isotopes/Atomic Nbr./Atomic Mass
1908	Photons & Spectra
1909	Atomic Theory
1910	Quantum Theory & Electron Clouds
1990	Other
2000	Earth Systems
2001	Earth's shape, dimension & composition
2002	Earth's origins and history
2003	Maps, locations and scales
2004	Measuring using relative and absolute time
2005	Mineral & Rock Formations & Types
2006	Erosion & Weathering
2007	Plate Tectonics
2008	Formation of volcanoes, earthquakes, mtns.
2009	Topography
2010	Dynamics & Energy Transfer
2011	Oceanography
2090	Other
2100	Astronomy
2101	Stars, Sun
2102	Galaxies
2103	Origins of the universe
2104	Asteroids and comets
2105	The Solar System
2106	The Moon
2107	The Earth's motion: rotation & revolution
2108	Earth, moon, sun relationship
2109	Location, Navigation, & Time
2190	Other
2200	Meteorology
2201	The Earth's Atmosphere
2202	Air Pressure & Winds
2203	Evaporation / Condensation / Precipitation
2204	Weather
2205	Climate
2290	Other
2300	Elements & The Periodic System
2301	Early Classification System(s)
2302	Modern Periodic Table
2303	Interaction of elements
2304	Element char. (families & periods)
2390	Other

2400	Chemical Formulas & Reactions
2401	Names, Symbols, & Formulas
2402	Molecular & Empirical formulas
2403	Representing chemical change
2404	Balancing chemical equations
2405	Stoichiometric Relationships
2406	Oxidation/Reduction Reactions
2407	Chemical Bonds
2408	Electrochemistry
2409	The Mole
2410	Types of reactions
2490	Other
2500	Acids, Bases, & Salts
2501	Arrhenius/Bronsted-Lowry/Lewis Theories
2502	Naming Acids
2503	Acid-Base behavior/strengths
2504	Salts
2505	pH
2506	Hydrolysis
2507	Buffers
2508	Indicators
2509	Titration
2590	Other
2600	Organic Chemistry
2601	Hydrocarbons, Alkenes, Alkanes, & Alkynes
2602	Aromatic Hydrocarbons
2603	Isomers & Polymers
2604	Aldehydes, Ether, Ketones, Esters, Alcohols, & Organic Acids
2605	Organic Reactions
2606	Carbohydrates, Proteins, Lipids
2690	Other
2700	Nuclear Chemistry
2701	Nuclear Structure
2702	Nuclear Equations
2703	Fission
2704	Radioactivity
2705	Half-life
2706	Fusion
2790	Other