

Scope & Sequence



Switched-On
SCHOOLHOUSE® 2007 EDITION

Switched-On Schoolhouse 2007 School Edition comes complete with a full, multimedia-enriched curriculum for grades 3–12 (levels 300–1200) in five core subjects and electives. This set of over 50 grade-level subjects resides on a hard drive that you received with the SOS application. The installation section of the reference guide gives you instructions in how you can install these materials on the server you are using to run your SOS school.

The following scope and sequence section provides a detailed list of all assignments by subject, unit, and assignment title, giving you a chance to get a bird’s-eye view of the SOS materials available for you to use in putting together your educational program.

The scope and sequence section covers the following:

- Bible 300–1200
- History and Geography 300–1200
- Language Arts 300–1200
- Mathematics 300–1200
- Science 300–1200
- Electives

Additionally, you can view all curriculum subjects from SOS Teacher under Administration/Curriculum Setup.

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Third Grade

301 YOU GROW AND CHANGE

L1	Your Body Breathes Air
L2	The Body Needs Oxygen Experiment S301A-Breathing Patterns Experiment S301B-Your Lungs
Q1	Quiz 1
L3	Your Body Digests Food Experiment S301C-Taste Test
Q2	Quiz 2
L4	Your Body Exercises and Rests Experiment S301D-Taking Your Pulse Experiment S301E-Bone Numbers
Q3	Quiz 3
L5	Your Body is Different from an Animal
Q4	Quiz 4
altproj	Special Project S301F
test	TEST
alttest	ALTERNATE TEST
ref	Reference

302 PLANTS

L1	Plant Parts Experiment S302A-Root Hairs Experiment S302B-Study a Stem
Q1	Quiz 1
L2	Plant Growth Experiment S302C-Grow Some Plants
Q2	Quiz 2
L3	Plant Changes Experiment S302D-Watch the Seeds Grow Experiment S302E-Plant a Piece of Potato Experiment S302F-Bean Plant
Q3	Quiz 3
altproj	Special Project S302G
test	TEST
alttest	ALTERNATE TEST
ref	Reference

303 ANIMALS: GROWTH AND CHANGE

L1	Animals and the Environment Experiment S303A-: Hourly Temperature
Changes	Experiment S303B-Water: Heat Energy Experiment S303C-Water: Desert Locations
Q1	Quiz 1
L2	How Animals are Different
L3	Animal Structures Project S303D-Vertebrate Chart Eating and Breathing Project S303E-Sort Birds by Type
Q2	Quiz 2
L4	How do Animals Grow and Change? Project S303F-Sow Bug Environment
Q3	Quiz 3
altproj	Special Project S303G

test	TEST
alttest	ALTERNATE TEST
ref	Reference

304 YOU ARE WHAT YOU EAT

L1	How to Build a Healthy Body
L2	How to Build a Healthy Body-2
Q1	Quiz 1
L3	How to Plan for Healthy Eating Project S304A-Breakfast Chart Project S304B-Lunch Chart Project S304C-Dinner Chart Project S304D-Chart Totals
Q2	Quiz 2
L4	How to Form Good Health Habits
L5	Caring for the Eyes and Body
Q3	Quiz 3
altproj	Special Project S304E
test	TEST
alttest	ALTERNATE TEST
ref	Reference

305 PROPERTIES OF MATTER

L1	Chemistry and Robert Boyle Experiment S305A-Be a Chemist
L2	Properties of Matter Experiment S305B-Volume Experiment S305C-Think about Mass Experiment S305D-Is Air Matter? Project S305E-Matter List Experiment S305F-Is Water Matter?
Q1	Quiz 1
L3	Physical Changes Experiment S305G-Mass Measurement Experiment S305H-Melting Ice Cubes
L4	Chemical Changes
Q2	Quiz 2
altproj	Special Project S305I
test	TEST
alttest	ALTERNATE TEST
ref	Reference

306 SOUNDS AND YOU

L1	Sounds are Made Experiment S306A-Vibrations
Q1	Quiz 1
L2	Sounds are Different
L3	How Do Sounds Travel? Experiment S306B-Sound Patterns Report S306C-Read about Sound Experiment S306D-High and Low Sounds Experiment S306E-Loud or Soft?
Q2	Quiz 2
L4	Sounds are Heard Experiment S306F-Think about Hearing Report S306G-How Animals Hear
Q3	Quiz 3

Science

altproj Special Project S306H
test TEST
allttest ALTERNATE TEST
ref Reference

307 TIME AND SEASONS

L1 How the Earth Moves
Experiment S307A-The Earth
Experiment S307B-Night
Experiment S307C-The Earth's Rotation
Q1 Quiz 1
L2 Why Time Changes
Experiment S307D-Different Times
Report S307E-Months
Q2 Quiz 2
L3 Why Seasons Change
Q3 Quiz 3
altproj Special Project S307F
test TEST
allttest ALTERNATE TEST
ref Reference

308 ROCKS AND THEIR CHANGE

L1 How Rocks are Formed: By Heat
L2 Rocks Formed by Volcanoes
L3 How Rocks are Formed: By Pressure
Experiment S308A-Bubbling Grains of Rock
Q1 Quiz 1
L4 Rocks are Changed by Wind and Water
L5 Rocks are Changed by Heat and Plants
Q2 Quiz 2
L6 Rocks are Used for Building
Research S308B-Mount Rushmore
L7 Rocks are Used for Enjoyment
Q3 Quiz 3
altproj Special Project S308C
test TEST
allttest ALTERNATE TEST
ref Reference

309 HEAT ENERGY

L1 Heat Energy (Part 1)
Experiment S309A-Feeling Friction
Experiment S309B-Oxygen and Fire
L2 Heat Energy (Part 2)
Experiment S309C-Static Electricity
Experiment S309D-Water Molecules
Experiment S309E-Changing Liquid to a Gas
Q1 Quiz 1
L3 What Heat Energy Is and Does
L4 Movement of Heat Energy
Q2 Quiz 2
L5 Heat Energy Affects Our Lives
Q3 Quiz 3
altproj Special Project S309F
test TEST

allttest ALTERNATE TEST
ref Reference

310 REVIEW

L1 Physical Change: Change in Man
L2 Physical Change: Change in Plants
L3 Physical Change: Change in Animals
Q1 Quiz 1
L4 The Earth
L5 Seasons and Times
Project S310A-Rock Collection
Q2 Quiz 2
L6 Sounds and Energy
Experiment S310B-How Sound Travels
Experiment S310C-Temperature Comparisons
Q3 Quiz 3
altproj Special Project S310D
test TEST
allttest ALTERNATE TEST
ref Reference

Fourth Grade

401 PLANTS

L1 Plant Life
L2 Plants Used As Food and Shelter
Project S401A-Things Made of Wood
Project S401B-Read and Write
L3 Plants Used For Enjoyment and Symbols
Report S401C-Flowers as State Symbols
Report S401D-Flower Paragraph
Q1 Quiz 1
L4 Parts of Plants
L5 How Plant Parts Function
Experiment S401E-Celery
L6 How Plant Parts Function (Part 2)
L7 How Plant Parts Function (Part 3)
Q2 Quiz 2
altproj Special Project S401F
test TEST
allttest ALTERNATE TEST
ref Reference

402 ANIMALS

L1 How Animals are Structured
L2 Whales
Report S402A- Types of Whales
L3 Birds
L4 Reptiles and Fish
Report S402B- Writing about Fish
Report S402C- Observing Fish
L5 How Animals Eat and Digest Food
L6 How Animals Breathe
Q1 Quiz 1
L7 How Animals Act: Mammals
L8 How Animals Act: Salmon
L9 How Animals Act: Birds
L10 How Animals Act: Insects

Q2	Report S402D- Honeybee Habits
L11	Quiz 2
L12	Animal Instinct
	Man Protects Animals
	Project S402E- Animal Scrapbook
Q3	Quiz 3
altproj	Special Project S402F
test	TEST
alttest	ALTERNATE TEST
ref	Reference
403	MAN AND HIS ENVIRONMENT
L1	Ecology
	Project S403A- Your Environment
L2	Resources
L3	Food Chains
L4	Ecosystem Population
	Project S403B- Populations
L5	Balance of Nature
	Project S403C-Make a Pyramid
	Report S403D-Rabbits in Australia
Q1	Quiz 1
L6	Water Communities
	Experiment S403E-Still Water Life
L7	Land Communities
	Project S403F-Human Communities
	Report S403G-Read and Write
	Project S403H-Terrarium or Diorama
	Report S403I- Forest Community
Q2	Quiz 2
L8	Misuse of the Environment
	Project S403J-Ask an Expert
	Report S403K- Endangered Species
L9	Resource Conservation
	Report S403L-How to Save Energy
L10	Environmental Preservation
	Report S403M-Special Treasures
Q3	Quiz 3
altproj	Special Project S403M
test	TEST
alttest	ALTERNATE TEST
ref	Reference
404	MACHINES
L1	Machines Are Needed: Work
	Report S404A-Galileo
	Experiment S404B-Gravity
L2	Machines Are Needed: Energy
Q1	Quiz 1
L3	Simple Machines: Lever
	Experiment S404C-Hammer and Nail
	Experiment S404D-Seesaw
L4	Simple Machines: Inclined Plane
	Experiment S404E-Inclined Plane
L5	Simple Machines: Wedge and Screw
	Experiment S404F-Screw and Nail
L6	Simple Machines: Wheel and Axle

L7	Simple Machines: Pulleys
	Experiment S404G-Pulleys
Q2	Quiz 2
L8	Compound Machines
Q3	Quiz 3
altproj	Special Project S404H
test	TEST
alttest	ALTERNATE TEST
ref	Reference
405	ELECTRICITY AND MAGNETISM
L1	Electricity
	Report S405A-Thomas Edison
	Experiment S405B-Static Electricity
L2	Currents and Circuits
	Project S405C-Conductors
	Experiment S405D-Wet Cell
	Project S405E-Electric Objects
L3	Electrical Use and Safety
	Project S405F-Fuses in Use
Q1	Quiz 1
L4	Magnetism
	Experiment S405G-Use a Magnet
	Experiment S405H-Make a Magnet
	Experiment S405I-Magnet Poles
	Experiment S405J-Testing a Magnet
	Experiment S405K-Generate Electricity
	Experiment S405L-Electromagnet
	Report S405M-Explorers
Q2	Quiz 2
altproj	Special Project S405N
test	TEST
alttest	ALTERNATE TEST
ref	Reference
406	WATER AND MATTER
L1	Water
	Experiment S406A-Ice
	Experiment S406B-Ice Volume
L2	Water as a Liquid
	Experiment S406C-Potato
L3	Water as a Gas
	Experiment S406D-Forming Dew
L4	Water as a Solvent
	Experiment S406E-Solubility
Q1	Quiz 1
L5	Matter
L6	Molecules and Atoms
	Experiment S406F-Molecules
L7	Elements
Q2	Quiz 2
altproj	Special Project S406G
test	TEST
alttest	ALTERNATE TEST
ref	Reference

Science

407	WEATHER
L1	The Atmosphere Experiment S407A-Air and Space
L2	Temperature Experiment S407B-Temperature
L3	Air Pressure Experiment S407C-Pressure
Q1	Quiz 1
L4	Forces and Weather
L5	Sand and Dust Storms Report S407D-Hurricanes
Q2	Quiz 2
L6	Prediction of Weather Project S407E-Thermometers
Q3	Quiz 3
altproj	Special Project S407F
test	TEST
alttest	ALTERNATE TEST
ref	Reference
408	OUR SOLAR SYSTEM AND THE UNIVERSE
L1	A Trip Through Space
L2	Our Big Universe Report S408A-Astronomy Instruments Essay S408B-Astronomy
Q1	Quiz 1
L3	The Sun S408C-Ancient People
L4	Movements Report S408D-Isaac Newton
L5	Heavenly Bodies Around the Sun
L6	Our Moon Experiment S408E-Moon Phases
Q2	Quiz 2
L7	The Stars and Space Essay S408F-Astrology
L8	The Milky Way and Other Galaxies
Q3	Quiz 3
altproj	Special Project S408G
test	TEST
alttest	ALTERNATE TEST
ref	Reference
409	THE PLANET EARTH
L1	The Air (Atmosphere) Experiment S409A-Condensation
L2	Gases in the Atmosphere
Q1	Quiz 1
L3	The Water (Hydrosphere) Essay S409B-Psalm 147
L4	Salt Water Experiment S409C-Currents
Q2	Quiz 2
L5	The Land (Lithosphere) Experiment S409D-Shadows
L6	Earth's Land Formations
L7	Earth's Rotation and Revolution

Q3	Quiz 3
altproj	Special Project S409E
test	TEST
alttest	ALTERNATE TEST
ref	Reference
410	UNDERSTANDING GOD'S WONDERFUL CREATION
L1	Review: The Solar System
L2	Review: The Earth
Q1	Quiz 1
L3	Review: Matter
L4	Review: Water
L5	Review: Weather Project S410A-Weather Scrapbook
Q2	Quiz 2
L6	Review: Electricity and Magnetism Project S410B-Thomas Alva Edison
L7	Review: Machines
Q3	Quiz 3
L8	Review: Ecology
L9	Review: Conservation Report S410C-Passenger Pigeon
Q4	Quiz 4
altproj	Special Project
test	TEST
alttest	ALTERNATE TEST
ref	Reference

Fifth Grade

501	CELLS
L1	The Basic Unit of Living Things: A Cell
L2	Viewing Cells Experiment S501A-Skin Cells
Q1	Quiz 1
L3	The Life and Activity of Cells
L4	Plants and Unicellular Organisms Experiment S501B-Onion Cells Experiment S501C-Pond Water Examination Experiment S501D-Cheek Cells Experiment S501E-Blood Cells Tissue
Q2	Quiz 2
L5	Energy and Growth of Cells
L6	Cell Reproduction
Q3	Quiz 3
altproj	Special Project S501F
test	TEST
alttest	ALTERNATE TEST
ref	Reference
502	PLANTS: LIFE CYCLES
L1	Classifying Living Things and Plants
L2	Parts of Plants
Q1	Quiz 1
	Seeding Bearing Plants
	Flowering Plants

L3	Experiment S502A- Flower Dissection Fertilization
L4	Experiment S502B- Seed Dissection Cone-Bearing Plants Project S502C-Examining Cones Project S502D-Seed Hunt
Q2	Quiz 2
L5	Spore Bearing Plants and Fungi
L6	Fern Plants Report S502E-Walking Fern
L7	Fungi Experiment S502F-Mold
Q3	Quiz 3
L8	One-celled Living Things
Q4	Quiz 4
altproj	Special Project S502G
test	TEST
alttest	ALTERNATE TEST
ref	Reference
503	ANIMALS: LIFE CYCLES
L1	Invertebrates: Life Cycles
L2	One-celled Organisms Report S503A- Protozoa
L3	Egg-Laying Invertebrates Experiment S503B-Mealworm Report S503C-The Spider Report S503D-Insect Study
L4	Worms and Mollusks
Q1	Quiz 1
L5	Vertebrates: Life Cycles
L6	Egg-Laying Vertebrates
L7	Egg-Laying Vertebrates (Part 2)
L8	Egg-Laying Vertebrates (Part 3) Experiment S503E-Chicken Egg
L9	Live-Bearing Vertebrates Report S503F-Mammals Essay S503G-God and Animals
Q2	Quiz 2
altproj	Special Project S503H
test	TEST
alttest	ALTERNATE TEST
ref	Reference
504	BALANCE IN NATURE
L1	Balance of Nature: Physical Environment Project S504A-Cycles
L2	Ecosystems Project S504B-Terrarium Project
Q1	Quiz 1
L3	The Prairie: Web of Life Project S504C-Prairie Land
L4	The Prairie Web of Life (2) Report S504D-Prairie Birds
L5	The Prairie: Food Chains Project S504E-Prairie Food Chain Project S504F-Special Environments

Q2	Quiz 2
L6	Humans and the Web of Life
L7	Humans and the Web of Life (2)
Q3	Quiz 3
altproj	Special Project S504G
test	TEST
alttest	ALTERNATE TEST
ref	Reference
505	TRANSFORMATION OF ENERGY
L1	Energy
L2	Work
Q1	Quiz 1
L3	Work From Energy Experiment S505A-Heat From The Sun
L4	Forms of Energy Experiment S505B-Heat from Bending Experiment S505C-Heat from a Chemical
Reaction	
L5	Chemical Energy
Q2	Quiz 2
L6	Energy in the Future
L7	Future Sources of Energy Experiment S505D-Solar Energy for Heat
Q3	Quiz 3
altproj	Special Project S505E
test	TEST
alttest	ALTERNATE TEST
ref	Reference
506	RECORDS IN THE ROCK: THE FLOOD
L1	Before the Flood: The Bible Record
L2	Man Before the Flood: The Physical Record
Q1	Quiz 1
L3	The Flood: The Bible Record Project S506A-Noah
L4	The Flood: The Physical Record Report S506B-Ancient Flood Stories
Q2	Quiz 2
L5	After the Flood: The Bible Record
L6	After the Flood: The Physical Record
Q3	Quiz 3
altproj	Special Project S506C
test	TEST
alttest	ALTERNATE TEST
ref	Reference
507	RECORDS IN THE ROCK: FOSSILS
L1	Fossil Formation Project S507A-Mold Fossil Copy Project S507B-Cast Fossil Copy
L2	Fossil Formation: Part 2
L3	Fossil Locations
Q1	Quiz 1
L4	Reading Fossils: Identification
L5	Reading Fossils: Earth's Age Project S507C-Plant and Animal Fossils

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L6	Reading Fossils: Difficulties Project S507D-Fossil Clues
L7	Reading Fossils: Reconstruction Project S507E-Label the Skeleton Project S507F-Be Creative
Q2	Quiz 2
altproj	Special Project S507G
test	TEST
alttest	ALTERNATE TEST
ref	Reference
508	RECORDS IN ROCK: GEOLOGY
L1	Features of the Earth Project S508A-Examine an Orange
L2	Layers of the Earth
L3	Rocks on the Earth's Surface Project S508B-Examine a Mineral
L4	Kinds of Rocks Report S508C-Rocks Report S508D-Rock Hunt
Q1	Quiz 1
L5	Changes in the Earth Experiment S508E-Erosion
L6	Causes of Surface Change
L7	Earthquakes and Volcanoes Project S508F-Volcano Summary
L8	Results of Forces
Q2	Quiz 2
altproj	Special Project S508G
test	TEST
alttest	ALTERNATE TEST
ref	Reference
509	CYCLES IN NATURE
L1	Properties of Matter
L2	Properties of Matter (Part 2) Experiment S509A-Volume
L3	Changes in Matter Experiment S509B-Water in a Liquid State Experiment S509C-Chemical and Physical
Change	
L4	Conservation of Matter Experiment S509D-Conservation of Matter
L5	Structure of Matter
Q1	Quiz 1
L6	Other Natural Cycles: Seasons
L7	The Causes of Seasons Project S509E-Globe
L8	Comets Report S509F-Famous Comets
L9	Life Experiment S509G-Water Evaporation
L10	God's Order
Q2	Quiz 2
altproj	Special Project S509H
test	TEST
alttest	ALTERNATE TEST

ref	Reference
510	LOOK AHEAD
L1	Living Things: Plants, Fungi, Protists, and Monerans
L2	Living Things: Animals and Animal-Like Protists
L3	Living Things: Balance of Nature
Q1	Quiz 1
L4	The Earth: Records of Life
L5	The Earth: Fossils
L6	The Earth: Records in Rock
Q2	Quiz 2
L10	Order in Creation
L11	Energy and Work
L12	Matter
Q3	Quiz 3
altproj	Special Project S510A
test	TEST
alttest	ALTERNATE TEST
ref	Reference

Sixth Grade

601	PLANT SYSTEMS
L1	Photosynthesis: Location Experiment S601A-Anacharis Photosynthesis
L2	Photosynthesis: The Leaf Factory Experiment S601B-Seeds
L3	Photosynthesis: Products Experiment S601C-Digestive Enzymes
L4	Photosynthesis: Raw Materials
L5	Investigation: Plant Growth
Q1	Quiz 1
L6	Transport System: Roots Experiment S601D-Root Observation
L7	Transport System: Stems and Leaves Experiment S601E-Celery
Q2	Quiz 2
L8	Regulatory System Experiment S601F-Growing Roots
Q3	Quiz 3
altproj	Special Project S601G
test	TEST
alttest	ALTERNATE TEST
ref	Reference
602	ANIMAL SYSTEMS
L1	Digestive System: Structure
L2	Digestive System: Function Experiment S602A-Digestion
L3	Digestive System: Function (Part 2) Experiment S602B-Oil and Soap Experiment S602C-Passing Food
Q1	Quiz 1
L4	Circulatory System Experiment S602D-Pulse Rate

L5	Experiment S602E-Heart Excretory System Experiment S602F-Carbon Dioxide Experiment S602G-Lungs Experiment S602H-Evaporation and Cooling
Q2	Quiz 2
L6	Muscular System
L7	Skeletal System Quiz: Bone Quiz
Q3	Quiz 3
altproj	Special Project S602I
test	TEST
alttest	ALTERNATE TEST
ref	Reference

603 PLANTS AND ANIMAL BEHAVIOR

L1	The Nervous System Project S603A-The Eye Project S603B-The Ear
L2	Nerves and Spinal Column
L3	Response and Intelligence Report S603C-Instincts Experiment S603D-Response Experiment S603E-Trial and Error
Q1	Quiz 1
L4	Plant Behavior
L5	Investigation: Tropisms
Q2	Quiz 2
L6	Terrestrial Biomes
L7	Aquatic Biomes
L8	Food Chains
L9	Nature: Cycles and Balance Report S603G-Man's Influence
Q3	Quiz 3
altproj	Special Project S603H
test	TEST
alttest	ALTERNATE TEST
ref	Reference

604 MOLECULAR GENETICS

L1	Reproduction Project S604A-Flower Structure
L2	Male-Female Reproduction Project S604B-Lima Bean Embryo
Q1	Quiz 1
L3	Inheritance Project S604C-Mendel's Discovery
L4	Taste, Dominance and Multiple Genes Experiment S604D-Taste Gene Lab Project S604E-Traits
Q2	Quiz 2
L5	DNA Experiment S604F-Albinos Report S604G-Genetics
L6	Mutation Project S604H-Seed or Seedless
L7	The Use of Mutations

L8	Project S604I-Pea Pod
Q3	Temperature Influence on Coloration Quiz 3
altproj	Special Project S604J
test	TEST
alttest	ALTERNATE TEST
ref	Reference

605 CHEMICAL STRUCTURE AND CHANGE

L1	Chemical Structure Experiment S605A-Solid, Liquid, Gas
L2	Chemical Elements and Atoms
L3	Molecules and Compounds Experiment S605B-Copper Iodide Experiment S605C-Calcium Carabonate
Q1	Quiz 1
L4	Periodic Table Project S605D-Water Molecule Model
L5	Atomic Weights Project S605E-Atomic Number
L6	Arrangement of the Periodic Table Project S605F-Use the Periodic Table
Q2	Quiz 2
L7	Chemical Change Project S605G-Chart and Diagram Report S605H-Chemical Discoveries
L8	Acids and Bases Experiment S605I-Acid or Base? Project S605J-From Memory Project S605K-Cause and Effect Project S605L-Chemical Symbols Project S605M-Discussion
Q3	Quiz 3
altproj	Special Project S605N
test	TEST
alttest	ALTERNATE TEST
ref	Reference

606 LIGHT AND SOUND

L1	Waves: Sound Experiment S606A-Test Tube Tunes Project S606B-Sound Vibrations
L2	Light Waves Project S606C-Light Waves Project S606D-Refracted Light
Q1	Quiz 1
L3	The Spectrum Project S606E-Color Spectrum Project S606F-Create a Rainbow
Q2	Quiz 2
L4	Colors Project S606G-Color Wheel Experiment S606H-Subtractive Colors Experiment S606I-Mixing Colored Lights
L5	Mixing Colors Experiment S606J-Mixing Colorants
Q3	Quiz 3

Science

altproj Special Project S606K
test TEST
alttest ALTERNATE TEST
ref Reference

607 MOTION AND ITS MEASUREMENT

L1 Motion, Force, and Work
L2 Measurement of Work
Experiment S607A Forces of Lifting and Pulling
Project S607B Unscramble Activity
Q1 Quiz 1
L3 Power and Newton's Laws of Motion
Report S607C-Horsepower and Watts
Experiment S607D-Your Horsepower
L4 Newton's Laws of Motion and Gravitation
Experiment S607E-Law of Inertia
Q2 Quiz 2
L5 Change in Motion
Q3 Quiz 3
altproj Special Project S607F
test TEST
alttest ALTERNATE TEST
ref Reference

608 SPACESHIP EARTH

L1 Earth's Motion
Experiment S608A-Balloon Globe
L2 Earth's Rotation
L3 Time
Experiment S608B-Observing Shadows
L4 Earth's Orbit
Q1 Quiz 1
L5 Eclipses
Project S608C-Fact or Opinion
Experiment S608D-Eclipses
Q2 Quiz 2
L6 The Solar System
Report S608E-Planets
L7 Asteroids, Comets, and Meteors
Q3 Quiz 3
altproj Special Project S608F
test TEST
alttest ALTERNATE TEST
ref Reference

609 ASTRONOMY AND THE STARS

L1 Astronomy
Report S609A-Great Astronomers
L2 Astronomy Today
Q1 Quiz 1
L3 Stars
L4 Elements and Spectra
Project S609B-The Spectroscope
Experiment S609C-Spectrography
Experiment S609D-Oil on Water
L5 Magnitude and Luminosity

L6 Light Years and Astronomical Units
Q2 Quiz 2
L7 Constellations and Major Stars
Experiment S609E-Betelgeuse and Aldebaran
Experiment S609F-Constellations
Q3 Quiz 3
altproj Special Project S609G
test TEST
alttest ALTERNATE TEST
ref Reference

610 THE EARTH AND THE UNIVERSE

L1 The Photosynthesis System
L2 The Transport System of Plants
L3 The Digestive System
L4 The Excretory System
L5 Skeletal and Muscular Systems
L6 The Nervous System
L7 Genetics and Reproduction
L8 Ecological Systems
Report S610A-Biomes
Q1 Quiz 1
L9 Physics and Chemistry: Matter
L10 Physics and Chemistry: Light
L11 Physics and Chemistry: Sound
L12 Physics and Chemistry: Motion
L13 Physics and Chemistry: Machines
Q2 Quiz 2
L14 Earth's Rotation
L15 Earth's Revolution
L16 Our Solar System
Q3 Quiz 3
altproj Special Project S610B
test TEST
alttest ALTERNATE TEST
ref Reference

Seventh Grade

701 WHAT IS SCIENCE?

L1 Tools of a Scientist 1
L2 Tools of a Scientist 2
Q1 Quiz 1
L3 Methods of a Scientist 1
L4 Methods of a Scientist 2
Q2 Quiz 2
L5 The Scientist
L6 The Four Major Areas of Science
Q3 Quiz 3
L7 Careers in Science
Q4 Quiz 4
altproj Special Project S701A
test TEST
alttest ALTERNATE TEST
ref Reference

702	PERCEIVING THINGS
L1	Measurement: The Metric System
L2	Measurement: Size and Distance
L3	Measurement: Area
L4	Measurement: Volume
L5	Measurement: Mass
Q1	Quiz 1
L6	Graphs: Uses, Bar, and Line
L7	Graphs: Pictographs and Pie Charts
	Experiment L702A-Making Graphs
Q2	Quiz 2
altproj	Special Project S702B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

703	EARTH IN SPACE (PART 1)
L1	Stargazing
L2	Star Charts
	Experiment S703A-Constellations
Q1	Quiz 1
L3	Astronomy
	Experiment S703B-Astrolabe
Q2	Quiz 2
L4	Astronomers
	Essay S703C-Galileo
Q3	Quiz 3
altproj	Special Project S703D
test	TEST
alttest	ALTERNATE TEST
ref	Reference

704	EARTH IN SPACE (PART 2)
L1	The Sun's Energy
Q1	Quiz 1
L2	The Sun's Family
L3	Outer Planets
L4	Asteroids and Comets
Q2	Quiz 2
L5	The Moon
Q3	Quiz 3
L6	Eclipses
Q4	Quiz 4
altproj	Special Project S704A
test	TEST
alttest	ALTERNATE TEST
ref	Reference

705	THE ATMOSPHERE
L1	Structure of the Atmosphere
L2	Solar Effects
	Experiment S705A-The Greenhouse
Q1	Quiz 1
L3	Natural Cycles
Q2	Quiz 2
L4	Pollution
Q3	Quiz 3

altproj	Special Project S705B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

706	WEATHER
L1	Elements of Weather
L2	Wind
L3	Pressure
	Experiment S706A-Dew Point
Q1	Quiz 1
L4	Weather in Motion
L5	Fronts
Q2	Quiz 2
L6	Weather Forecasting
Q3	Quiz 3
altproj	Special Project S706B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

707	CLIMATE
L1	Climate: General
Q1	Quiz 1
L2	Climate: Worldwide
Q2	Quiz 2
L3	Climate: Regional
L4	Climate: Regional Part 2
Q3	Quiz 3
altproj	Special Project S707A
test	TEST
alttest	ALTERNATE TEST
ref	Reference

708	THE HUMAN ANATOMY (PART 1)
L1	Human Building Blocks
	Experiment S708A-Cheek Cell
Q1	Quiz 1
L2	Human Framework
L3	Skin
Q2	Quiz 2
L4	Human Nervous System
	Project S708B-Human Brain
L5	Senses
Q3	Quiz 3
altproj	Special Project S708C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

709	THE HUMAN ANATOMY (PART 2)
L1	The Respiratory System
Q1	Quiz 1
L2	The Circulatory System
	Experiment S709A-Heart Rate
Q2	Quiz 2
L3	The Digestive System-Part 1

Science

L4	The Digestive System-Part 2
Q3	Quiz 3
L5	The Excretory System
Q4	Quiz 4
L6	The Endocrine System
Q5	Quiz 5
Altproj	Special Project S709B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

710 REVIEW

L1	Scientists at Work
	Experiment S710A-Red Celery
L2	Famous Scientists
Q1	Quiz 1
L3	The Astronomer at Work
L4	Planets
Q2	Quiz 2
L5	The Meteorologist at Work
L6	Studying the Weather
L7	Studying Climates
Q3	Quiz 3
L8	The Medical Scientist at Work
L9	Nervous and Endocrine Systems
L10	Circulatory and Respiration Systems
L11	Digestive and Excretory Systems
Q4	Quiz 4
altproj	Special Project S710B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

Eighth Grade

801 SCIENCE AND SOCIETY

L1	Science Today
L2	Post Renaissance Science
	Essay S801A-Mendel
Q1	Quiz 1
L3	Today's Scientist
Q2	Quiz 2
L4	Science and Technology
	Essay S801B-Da Vinci
L5	Limitations
Q3	Quiz 3
altproj	Special Project S801C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

802 STRUCTURE OF MATTER (PART 1)

L1	Properties of Matter(1)
	Experiment S802A-Determining Volume
	Experiment S802A-Metric Measurements
L2	Properties of Matter(2)
Q1	Quiz 1
L3	Atoms and Molecules

L4	Molecules
Q2	Quiz 2
L5	Elements
L6	Compounds
L7	Mixtures
	Experiment S802B-Mixtures
Q3	Quiz 3
altproj	Special Project S802C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

803 STRUCTURE OF MATTER (PART 2)

L1	Matter and Change
	Experiment S803A-Phase Changes
L2	Solutions
L3	Chemical Changes
	Experiment S803B-Forms of Change
L4	Nuclear Changes
Q1	Quiz 1
L5	Acids
Q2	Quiz 2
L6	Bases
	Experiment S803C-Cabbage
Q3	Quiz 3
L7	Salts
Q4	Quiz 4
altproj	Special Project S803D
test	TEST
alttest	ALTERNATE TEST
ref	Reference

804 HEALTH AND NUTRITION

L1	Foods and Digestion
Q1	Quiz 1
L2	Diet
	Experiment S804A-Food Record
Q2	Quiz 2
L3	Nutritional Diseases
	Essay S804B-Nutrition
Q3	Quiz 3
L4	Hygiene
Q4	Quiz 4
altproj	Special Project S804C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

805 ENERGY (PART 1)

L1	Mechanical Energy
L2	Potential Energy
Q1	Quiz 1
L3	Other Forms of Energy
L4	Chemical Energy
L5	Atomic Energy
Q2	Quiz 2
L6	Energy Conversion and Entropy

Q3	Essay S805A-Entropy
altproj	Quiz 3
test	Special Project S805B
alttest	TEST
ref	ALTERNATE TEST
	Reference
806	ENERGY (PART 2)
L1	Magnetism
	Experiment S806A-Magnetism
L2	Electricity and Magnetism
Q1	Quiz 1
L3	Electricity
L4	Electrical Circuits
Q2	Quiz 2
L5	Energy for the Future
	Experiment S806B-Hot Dog Cooker
Q3	Quiz 3
altproj	Special Project S806C
test	TEST
alttest	ALTERNATE TEST
ref	Reference
807	MACHINES (PART 1)
L1	Distance
	Essay S807A-Scientists
L2	Measuring Distance
Q1	Quiz 1
L3	Force
L4	Force Vectors
Q2	Quiz 2
L5	Work
L6	Work and Energy
Q3	Quiz 3
altproj	Special Project S807B
test	TEST
alttest	ALTERNATE TEST
ref	Reference
808	MACHINES (PART 2)
L1	Friction
L2	Types of Friction
	Experiment S808A-Friction Investigation
Q1	Quiz 1
L3	Levers
Q2	Quiz 2
L4	Wheel and Axle, Pulleys, and Gears
	Experiment S808B-Pencil Sharpener
Q3	Quiz 3
L5	Inclined Plane, Wedge, and Screw
Q4	Quiz 4
altproj	Special Project S808C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

809	BALANCE IN NATURE
L1	Photosynthesis and Food
L2	Food
Q1	Quiz 1
L3	Natural Cycles
L4	The Water Cycle
Q2	Quiz 2
L5	Balance and Disruption
L6	Resources
Q3	Quiz 3
altproj	Special Project S809A
test	TEST
alttest	ALTERNATE TEST
ref	Reference
810	SCIENCE AND TECHNOLOGY
L1	Basic Science
L2	Characteristics of Matter
L3	Matter in Change
Q1	Quiz 1
L4	Energy
L5	Chemical and Atomic Energy
L6	Magnetism and Electricity
L7	Machines at Work
Q2	Quiz 2
L8	Life Science
Q3	Quiz 3
L9	Vocations in Science and Technology
Q4	Quiz 4
altproj	Special Project S810A
test	TEST
alttest	ALTERNATE TEST
ref	Reference

Ninth Grade

901	OUR ATOMIC WORLD
L1	Structure of Matter
Q1	Quiz 1
L2	Radioactivity
Q2	Quiz 2
L3	Atomic Nuclei
Q3	Quiz 3
L4	Nuclear Energy
	Experiment S901A-Reactors
Q4	Quiz 4
L5	Applications and Environmental Hazards
Q5	Quiz 5
altproj	Special Project S901B
test	TEST
alttest	ALTERNATE TEST
ref	Reference
902	VOLUME, MASS, AND DENSITY
L1	Volume
	Experiment S902A-Determining Volume
Q1	Quiz 1
L2	Mass

Science

	Experiment S902B-Mass of Gas
Q2	Quiz 2
L3	Density
Q3	Quiz 3
altproj	Special Project S902C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

903 PHYSICAL GEOLOGY

L1	Earth Structures
L2	Internal Structures
L3	Igneous Structures
	Essay S903A-Volcanic Eruptions
L4	Mountains
Q1	Quiz 1
L5	Earth Changes
L6	Erosion and Sediment
L7	Oceans
Q2	Quiz 2
L8	Earth Movements
	Experiment S903B-Specific Gravity
	Experiment S903C-Gravity
L9	Plate Tectonics
Q3	Quiz 3
altproj	Special Project S903D
test	TEST
alttest	ALTERNATE TEST
ref	Reference

904 HISTORICAL GEOLOGY

L1	An Observational Science
L2	Sedimentary Rock
L3	Fossils
L4	Crustal Changes
Q1	Quiz 1
L5	Measuring Time
L6	Absolute Time
Q2	Quiz 2
altproj	Special Project S904A
test	TEST
alttest	ALTERNATE TEST
ref	Reference

905 OCEANOGRAPHY

L1	Chronology and Techniques for Investigation
L2	Major Discoveries and Submersible Research
	Essay S908A-The Moon and Tides
Q1	Quiz 1
L3	Geological Structure and Results of Profiling
L4	Turbidity, Sedimentation, and Currents
Q2	Quiz 2
L5	Biology of the Ocean
L6	Chemistry of the Ocean
L7	Physical Properties of the Ocean
	Essay S908B-Marine Report
Q3	Quiz 3

altproj	Special Project S908C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

906 ASTRONOMY

L1	Presuppositions
L2	Extent of the Universe
L3	Constellations
L4	Measuring the Universe
Q1	Quiz 1
L5	Gathering Light and Types of Telescopes
L6	Other Types of Telescopes
	Essay S907A-Telescopes
Q2	Quiz 2
L7	Space Explorations
Q3	Quiz 3
altproj	Special Project S907B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

907 BODY HEALTH (PART 1)

L1	Microorganisms
L2	Categories of Pathogenic Organisms
L3	Characteristics of Infectious Diseases
	Essay S905A-Medical Science
Q1	Quiz 1
L4	Digestive Infections
L5	Respiratory Infections
L6	Nervous System Infections
Q2	Quiz 2
L7	Common Viral Infections
L8	Childhood Viral Infections
L9	More Serious Viral Infections
Q3	Quiz 3
L10	Protozoan Infections
L11	Rickettsial Infections
L12	Fungal Infections
Q4	Quiz 4
altproj	Special Project S905B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

908 BODY HEALTH (PART 2)

L1	Body Defense Mechanisms
L2	Medical Drugs
	Essay S906A-Chemotherapy
Q1	Quiz 1
L3	Environmental Conditions
L4	Medical Advances and Total Health
Q2	Quiz 2
L5	Governmental Agencies and Volunteer
Groups	
L6	Medical and Drug Control Organizations
Q3	Quiz 3

altproj Special Project S906B
 test TEST
 alttest ALTERNATE TEST
 ref Reference

909 SCIENCE AND TOMORROW

L1 Ecology
 L2 Agriculture and Waste
 L3 Population
 Q1 Quiz 1
 L4 Energy Sources
 L5 Debate: Fossil Fuels, Nuclear/Natural Power
 L6 Industry, Transportation, and Urbanization
 Q2 Quiz 2
 L7 Outer Space
 L8 Inner Space and Self Exploration
 Q3 Quiz 3
 altproj Special Project S909A
 test TEST
 alttest ALTERNATE TEST
 ref Reference

910 REVIEW

L1 Nuclear Power
 L2 The Metric System
 Q1 Quiz 1
 L3 Weight Versus Mass
 Q2 Quiz 2
 L4 Deposition Versus Erosion
 L5 The Oceans, Continents; Earth in Space
 Q3 Quiz 3
 L6 Practical Health
 L7 Population and Environment
 Q4 Quiz 4
 altproj Special Project S910A
 test TEST
 alttest ALTERNATE TEST
 ref Reference

Tenth Grade

1001 TAXONOMY: KEY TO ORGANIZATION

L1 The History of Taxonomy
 Q1 Quiz 1
 L2 Binomial Nomenclature
 L3 Concept of Species
 Q2 Quiz 2
 L4 Plant and Animal Classification
 Experiment S1001A-Fruit
 Activity S1001B-Keying Plants
 Activity S1001C-Keying Animals
 L5 Search For A System
 Q3 Quiz 3
 L6 Taxonomy and Origins
 L7 Models of Origin
 Project S1001D-Research
 Project S1001E-Origins
 Q4 Quiz 4
 altproj Special Project S1001F
 test TEST
 alttest ALTERNATE TEST
 ref Reference

1002 BASIS OF LIFE

L1 Molecular Basis of Life
 Q1 Quiz 1
 L2 Properties of Compounds
 Experiment S1002A-Static Electricity
 L3 Covalent Bonding
 Experiment S1002B-Temperature
 L4 Importance of Inorganic Compounds
 Experiment S1002C-Water Properties
 Experiment S1002D-Indicators
 Q2 Quiz 2
 L5 Chemical Reactions
 Q3 Quiz 3
 L6 Organic Compounds
 L7 Carbohydrates
 Experiment S1002E-Starch
 L8 Lipids
 L9 Nucleic Acids
 Q4 Quiz 4
 L10 Enzymes
 Experiment S1002F-Digestion
 Q5 Quiz 5
 altproj Special Project S1002G
 test TEST
 alttest ALTERNATE TEST
 ref Reference

1003 MICROBIOLOGY

L1 Microbial Taxonomy
 L2 The Microscope
 Experiment S1003A-Microscope
 Q1 Quiz 1
 L3 Protista: The Protozoa
 Experiment S1003B-Protozoan

Science

L4	Experiment S1003C-Amoeba Flagellated Protozoa Experiment S1003D-The Euglena
L5	Economic Significance of the Protozoa
Q2	Quiz 2
L6	Protista: The Algae Experiment S1003E-Algae Project S1003F-Water Investigation
L7	Protista: Fire Algae
Q3	Quiz 3
L8	The Fungi Experiment S1003G-Fungi
L9	The Monera
L10	The Rickettsias Experiment S1003H-Algae Observations
Q4	Quiz 4
altproj	Special Project S1003I
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1004 CELLS

L1	The Cell-An Introduction Experiment S1004A-Cheek Cells Experiment S1004B-Onion Cells
Q1	Quiz 1
L2	Cell Design
L3	Cell Membrane Function Experiment S1004C-Osmosis
L4	Organelles
L5	Production of Needed Material
Q2	Quiz 2
L6	Cells in Organisms Experiment S1004D-Tissues
Q3	Quiz 3
altproj	Special Project S1004E
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1005 PLANTS: GREEN FACTORIES

L1	How is a Plant Made?
L2	Parts of the Plant Cell
L3	Anatomy and Morphology
Q1	Quiz 1
L4	How do Plants Grow? Experiment S1005A-Seeds
L5	Developmental Anatomy
Q2	Quiz 2
L6	How do Plants Work?
L7	Photosynthesis: A Closer Look Experiment S1005B-Terrarium
L8	Respiration
Q3	Quiz 3
L9	How do Plants Help People?
Q4	Quiz 4
altproj	Special Project S1005C

test	TEST
alttest	ALTERNATE TEST
ref	Reference

1006

HUMAN ANATOMY AND PHYSIOLOGY

L1	Digestive System
L2	Excretory System
L3	Respiratory System
L4	Circulatory System
L5	The Heart Experiment S1006A-Heart Rate
Q1	Quiz 1
L6	Body Framework
L7	Muscular System Experiment S1006B-Muscle Types
L8	Reproductive System
Q2	Quiz 2
L9	Environmental Interactions
L10	Sensory Systems: The Eye
L11	Sensory Systems: Hearing, Taste, Touch
L12	Endocrine System
L13	Immune System and Disease
Q3	Quiz 3
altproj	Special Project S1006C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1007

GENETICS: GOD'S PLAN OF INHERITANCE

L1	Genetics: God's Plan of Inheritance
L2	Probabilities Experiment S1007A-Probability
L3	Cross Predictions
L4	Application of Mendelian Genetics
Q1	Quiz 1
L5	Chromosome Basis of Heredity
L6	Chromosomes in Meiosis
L7	Sex Chromosomes
Q2	Quiz 2
L8	Molecular Genetics Experiment S1007B-Molecular Genetics
Q3	Quiz 3
L9	Human Genetics
L10	Factors Studied
L11	Inherited Diseases
Q4	Quiz 4
altproj	Special Project S1007C
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1008

CELL DIVISION AND REPRODUCTION

L1	Cell Division
L2	Meiosis
L3	Stages of Mitosis Experiment S1008A-Mitosis
Q1	Quiz 1

L4	Asexual Reproduction Experiment S1008B-Fragmentation
L5	Plants Experiment S1008C-Bulb Structure
L6	Practical Applications in Plants Experiment S1008D-Cuttings
Q2	Quiz 2
L7	Sexual Reproduction
L8	Fertilization Experiment S1008E-Sexual Reproduction
Q3	Quiz 3
L9	Sexual Reproduction in Animals Experiment S1008F-Tissue Structure
L10	Metamorphosis
Q4	Quiz 4
L11	Sexual Reproduction in Plants
L12	Life Cycles of Ferns and Pines Experiment S1008G-Ferns and Pines Experiment S1008H-Flowers
Q5	Quiz 5
altproj	Special Project S1008I
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1009 ECOLOGY, POLLUTION, AND ENERGY

L1	Principles of Ecology
L2	Environmental Factors
L3	Food Chains
Q1	Quiz 1
L4	Ecological Relationships
L5	Communities and Habitats Experiment S1009A-Habitats Experiment S1009B-Biomes Experiment S1009C-Quadrats Experiment S1009D-Inventory
Q2	Quiz 2
L6	Pollution Affects Ecology
L7	Pollution Problems
Q3	Quiz 3
L8	Energy Affects Ecology Essay S1009E-Stewardship
Q4	Quiz 4
altproj	Special Project S1009F
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1010 PRINCIPLES AND APPLICATIONS OF BIOLOGY

L1	Study of Life
L2	Definition of Life
Q1	Quiz 1
L3	Basic Principles of Life
L4	Control System
L5	Environment of Life
Q2	Quiz 2

L6	Applications of Biology
L7	Green Revolution
Q3	Quiz 3
altproj	Special Project S1010A
test	TEST
alttest	ALTERNATE TEST
ref	Reference

Eleventh Grade

1101 MEASUREMENT AND ANALYSIS

L1	An Introduction to Chemistry and Metric Measurement Report S1101A-Metric System
L2	Measuring Volume in the Chemistry Laboratory
L3	Measuring Mass in the Chemistry Laboratory
Q1	Quiz 1
L4	Showing Precision in Measurements Project S1101B-Measuring Length with Precision Experiment S1101C-Masses
Q2	Quiz 2
L5	Observation and Hypothesizing
L6	Using Graphs to Analyze Data
Q3	Quiz 3
L7	Using Significant Figures to Show the Reliability of Data
L8	Using Scientific Notation with Significant Figures
Q4	Quiz 4
L9	Doing Chemistry Your Way: Find Your Future
L10	Practice in Measuring Metric Volumes
L11	Learning to Make Useful and Detailed Observations
Q5	Quiz 5
altproj	Special Project S1101D
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1102 STARTING THE INVESTIGATION: HOW TO IDENTIFY ELEMENTS, COMPOUNDS AND MIXTURES

L1	The Basic Ingredient: Chemical Elements
Q1	Quiz 1
L2	Using Chemical and Physical Properties to Identify Substances Experiment S1102A-Observations of a Phase Change Experiment S1102B-Salt and Sand
L3	Creating Compounds: Investigating Chemical Changes
Q2	Quiz 2 Report S1102C-Density
L4	Identifying Different Types of Mixtures Experiment S1102D-Using the Tyndall Effect to Identify Colloids

Science

Q3	Quiz 3
altproj	Special Project S1102E
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1103 EXPLORING LAWS FOR GASES AND CONSERVATION OF MASS

L1	Nothing Stays Put-The Basis for Diffusion and Pressure
L2	Gases and Kinetic Molecular Theory Project S1103A-Graphing Kinetic Energy
Q1	Quiz 1
L3	Pressure-Volume Relationships in Gases (Boyle's Law)
Q2	Quiz 2
L4	Temperature-Volume Relationships in Gases (Charles' Law) Experiment S1103B-Finding Absolute Zero Experimentally Project S1103C-Absolute Zero: Real or Theoretical?
Q3	Quiz 3
L5	Combined Gas Law
Q4	Quiz 4
L6	Counting Gas Particles: the Measure of the Mole
L7	How Big is Mole? Avogadro's Number
L8	Demonstrating Conservation of Mass with Balanced Equations Essay S1103D-Biography
L9	Examining the Use of Certain Gases as Propellants
L10	A Metal Can Meets Mr. Charles and Mr. Boyle
L11	How "Gas Laws" Impact Scuba Diving
L12	More "Gas Laws" and Scuba Diving
Q5	Quiz 5
altproj	Special Project S1103E
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1104 THE DISCOVERY OF ATOMS: NATURE'S BUILDING BLOCKS

L1	The Golden Years of Chemistry Experiment S1104A-Physical Properties of Elements Experiment S1104B-Chemical Properties of Some Metals
L2	Masters of Classic Atomic Theory
Q1	Quiz 1
L3	Designing an Organizational Map:The Periodic Table
Q2	Quiz 2
L4	The Bohr Model Revisited
Q3	Quiz 3
L5	Charging Up: Ionization of Atoms

Q4	Quiz 4
L6	A Closer Look Inside: Nuclear Reactions Report S1104C-Fission Reactors
Q5	Quiz 5
altproj	Special Project S1104D
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1105 MOLECULAR STRUCTURE

L1	Chemical Accounting: Stoichiometry
L2	Valence Structure
Q1	Quiz 1
L3	Determining Chemical Formulas
L4	Electron Availability: Prelude to Bonding
Q2	Quiz 2
L5	Types of Chemical Bonds
L6	Polar Covalent Molecules and Dot Structures Experiment S1105A-Demonstrating Polar Properties
Q3	Quiz 3
altproj	Special Project S1105B
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1106 CHEMICAL REACTIONS, RATES AND EQUILIBRIUM

L1	Evidence for Chemical Change Experiment S1106A-Observing Chemical Changes Experiment S1106B-Chemical Reactions Experiment S1106C-Ammonium Nitrate
L2	Enthalpy of Reaction
L3	Using Gibbs Free Energy to Predict Spontaneous Reactions
Q1	Quiz 1
L4	Factors that Affect Reaction Rates: Solution Concentration Experiment S1106D-Affect of Solution Concentration on Reaction Rate
L5	Factors that Affect Reaction Rates: Temperature, Catalysts, Concentration of Reactants
Q2	Quiz 2
L6	Reaction Equilibriums and Equilibrium Constants Activity S1106E-Exploring Factors that Affect Equilibrium
L7	Conditions Affecting Equilibrium
Q3	Quiz 3
altproj	Special Project S1106F
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1107	EQUILIBRIUM SYSTEMS
L1	Chemist's Toolbox
L2	Solutions
L3	Solution Concentration: Molarity
L4	Electrical Nature of Solutions
L5	Solubility
Q1	Quiz 1
L6	The Dissolving Process Experiment S1107A-Solubility Trends
L7	The Solubility Constant
Q2	Quiz 2
L8	Acid-Base Equilibria Experiment S1107B-Acid Strength
L9	pH Scale
L10	Titration of Acids and Bases
Q3	Quiz 3
L11	Redox Equilibria
L12	Redox and Oxidation Potentials
L13	Activity: Solution Concentration vs. Conductivity
L14	pH Calculations
Q4	Quiz 4
altproj	Special Project S1107C
test	TEST
alttest	ALTERNATE TEST
ref	Reference
1108	CARBON CHEMISTRY: HYDROCARBONS
L1	Organic Compounds
L2	Sources of Organic Compounds Experiment S1108A-Volatility
Q1	Quiz 1
L3	A Closer Look at the Carbon Atom
L4	Bonding in Organic Compounds
Q2	Quiz 2
L5	Alkanes: Saturated Hydrocarbons
L6	Unsaturated Hydrocarbons
Q3	Quiz 3
altproj	Special Project S1108A
test	TEST
alttest	ALTERNATE TEST
ref	Reference
1109	CARBON CHEMISTRY: FUNCTIONAL
GROUPS	
L1	Common Reactions of Saturated Hydrocarbons
L2	Reactions of Unsaturated Hydrocarbons
Q1	Quiz 1
L3	Alcohols
L4	Aldehydes, Acids, and Ketones
L5	Esters
Q2	Quiz 2
L6	Nitrogen Functional Groups
L7	Proteins and Amino Acids Experiment S1109A-Preparation of a Polymer

Q3	Quiz 3
altproj	Special Project S1109B
test	TEST
alttest	ALTERNATE TEST
ref	Reference
1110	CHEMISTRY REVIEW
L1	Measurement and Analysis
L2	Scientific Analysis and Significant Figures
L3	Elements, Compounds, and Mixtures
L4	Gases and Moles
Q1	Quiz 1
L5	Atomic Structure and Nuclear Reactions
L6	The Periodic Law
L7	Molecular Structure
L8	Chemical Reactions, Rates, and Equilibrium
L9	Reaction Dynamics
Q2	Quiz 2
L10	Solutions
L11	Solubility Equilibrium
L12	Neutralization
L13	Organic Compounds
L14	Hydrocarbon Chemistry
Q3	Quiz 3
altproj	Special Project S1110A
test	TEST
alttest	ALTERNATE TEST
ref	Reference

Twelfth Grade

1201	KINEMATICS
L1	Measuring Scalars and Vectors Experiment S1201A-Making a Soda Straw Balance
Q1	Quiz 1
L2	Measurement of Length Experiment S1201B-Oleic Acid
Q2	Quiz 2
L3	Rate of Length Change: Speed Report S1201C-Galileo
L4	Rate of Length Change: Velocity
Q3	Quiz 3
L5	Rate of Velocity Change
L6	Acceleration Due to Gravity
Q4	Quiz 4
L7	Fields and Models
Q5	Quiz 5
altproj	Special Project S1201D
test	TEST
alttest	ALTERNATE TEST
ref	Reference
1202	DYNAMICS
L1	Newton's First and Second Laws Report S1202A-Isaac Newton
Q1	Quiz 1

Science

L2	Gravity
Q2	Quiz 2
L3	Uniform Circular Motion Experiment S1202B-Circular Motion
Q3	Quiz 3
L4	Newton's Third Law and Conservation of Momentum Experiment S1202C-Explosion
Q4	Quiz 4
L5	Kepler's Laws of Planetary Motion Report S1202D-Solar System Experiment S1202E-Kepler's Law
Q5	Quiz 5
altproj	Special Project S1202F
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1203 WORK AND ENERGY

L1	Work, Kinetic, and Potential Energy Report S1203A-Nuclear Energy
Q1	Quiz 1
L2	Conservation of Energy
L3	Power and Efficiency Experiment S1203B-Simple Machines
Q2	Quiz 2
L4	Heat Energy
L5	Latent Heat Experiment S1203C-Latent Heat
L6	Laws of Thermodynamics
Q3	Quiz 3
altproj	Special Project S1203D
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1204 INTRODUCTION TO WAVES

L1	Characteristics of Waves Experiment S1204A-Wave Speeds Experiment S1204B-Pulses
Q1	Quiz 1
L2	Wave Phenomena Experiment S1204C-Waves Experiment S1204D-Bending Waves
Q2	Quiz 2
L3	Sound Waves Experiment S1204E-Doppler Effect
Q3	Quiz 3
altproj	Special Project S1204F
test	TEST
alttest	ALTERNATE TEST
ref	Reference

LIGHT

L1	Speed of Light: Historical Calculations
L2	Properties of Light Experiment S1205A-Light Angles

Q1	Experiment S1205B-Water Refraction Quiz 1
L3	Mirrors Experiment S1205C-Convergence
L4	Lenses
Q2	Quiz 2
L5	Light Phenomena and Models of Light Experiment S1205D-Light Observations
Q3	Quiz 3
altproj	Special Project S1205E
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1206 STATIC ELECTRICITY

L1	Electric Charges
L2	Coulomb's Law Experiment S1206A-Static Electricity
L3	The Transfer of Charges
Q1	Quiz 1
L4	Electric Fields
Q2	Quiz 2
L5	Electric Potential
L6	Potential and Energy
Q3	Quiz 3
altproj	Special Project
test	TEST
alttest	ALTERNATE TEST
ref	Reference

1207 ELECTRIC CURRENTS

L1	Sources of EMF Project S1207A-Research and Report
L2	Fluid Flow
Q1	Quiz 1
L3	Resistance
Q2	Quiz 2
L4	Ohm's Law
L5	Circuits
Q3	Quiz 3
altproj	Special Project
test	TEST
alttest	ALTERNATE TEST
ref	Reference

MAGNETISM

L1	Fields and Forces Experiment S1208A-Magnetic Fields
L2	Forces
Q1	Quiz 1
L3	Electromagnetism Experiment S1208B-Magnetic Fields
L4	Electromagnetic Induction
Q2	Quiz 2
L5	Electron Beams
Q3	Quiz 3
altproj	Special Project S1208C

test TEST
alttest ALTERNATE TEST
ref Reference

1209 ATOMIC AND NUCLEAR PHYSICS

L1 Quantum Theory
L2 X-Rays, Matter Waves, and the Uncertainty Principle
Q1 Quiz 1
L3 Early Atomic Models
Report S1209A-Early Atomic Physics
L4 Bohr Model
L5 Nuclear Theory
Q2 Quiz 2
L6 Nuclear Reactions
L7 Fusion and Applications of Nuclear Energy
Q3 Quiz 3
altproj Special Project
test TEST
alttest ALTERNATE TEST
ref Reference

1210 REVIEW

L1 Mechanics
L2 Dynamics
L3 Energy
Q1 Quiz 1
L4 Wave Motion
L5 Light and Sound
Q2 Quiz 2
L6 Electricity and Magnetism
L7 Fields and Forces
L8 Circuits
Q3 Quiz 3
L9 Modern Physics
L10 The Bohr Atom
L11 Duality
L12 Nuclear Energy
Q4 Quiz 4
altproj Special Project S1210A
test TEST
alttest ALTERNATE TEST
ref Reference