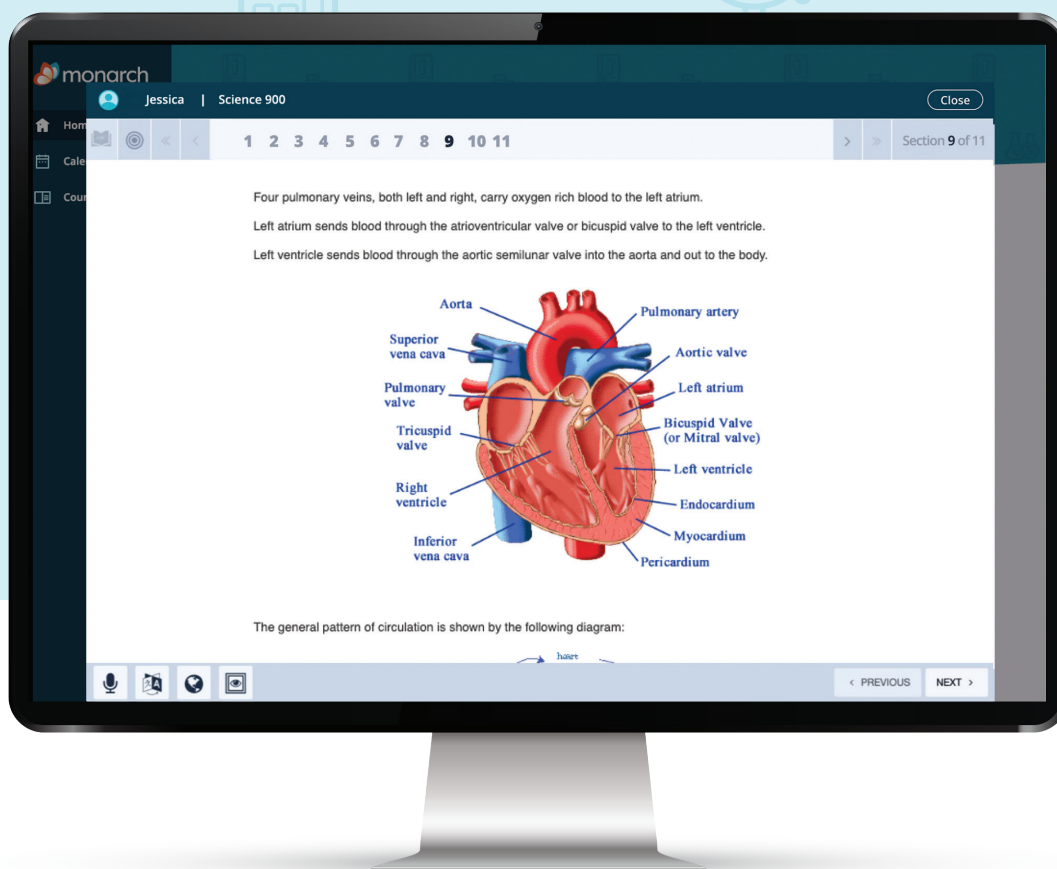




monarch

BY AOP



Science

Scope & Sequence



SCIENCE

MONARCH SCIENCE explores God’s universe from the microscopic to the cosmic. Students develop critical thinking through hands-on exploration and experimentation in lessons on living organisms, habitats, and systems, scientific inquiry and experimentation methods, matter and energy principles, and earth and space studies.

3rd Grade

Plants & Animals / Energy	
MON300S	3rd Grade Science
Unit 1	You Grow & Change
Unit 2	Plants
Unit 3	Animals: Growth & Change
Unit 4	You Are What You Eat
Unit 5	Properties of Matter
Unit 6	Sounds & You
Unit 7	Time & Seasons
Unit 8	Rocks & Their Change
Unit 9	Heat Energy
Unit 10	Review

4th Grade

Changes in Matter, the Solar System, & Earth	
MON400S	4th Grade Science
Unit 1	Plants
Unit 2	Animals
Unit 3	Man & His Environment
Unit 4	Machines
Unit 5	Electricity & Magnetism
Unit 6	Water & Matter
Unit 7	Weather
Unit 8	Our Solar System & the Universe
Unit 9	The Planet Earth
Unit 10	Understanding God's Wonderful Creation

5th Grade

Life Cycles: Balance in Nature	
MON500S	5th Grade Science
Unit 1	Cells
Unit 2	Plants: Life Cycles
Unit 3	Animals: Life Cycles
Unit 4	Balance in Nature
Unit 5	Transformation of Energy
Unit 6	Records in the Rock: The Flood
Unit 7	Records in the Rock: Fossils
Unit 8	Records in Rock: Geology
Unit 9	Exploring Matter
Unit 10	Review

6th Grade

Plants & Animal Behavior / Molecular Genetics	
MON600S	6th Grade Science
Unit 1	Plant Physiology
Unit 2	Anatomy
Unit 3	Plant & Animal Behavior
Unit 4	Genetics
Unit 5	Chemistry
Unit 6	Physics: Light & Sound
Unit 7	Physics: Motion
Unit 8	The Solar System
Unit 9	Astronomy
Unit 10	Review

7th Grade

General Science I	
MON700S	General Science I
Unit 1	What Is Science?
Unit 2	Perceiving Things
Unit 3	Earth in Space (Part 1)
Unit 4	Earth in Space (Part 2)
Unit 5	The Atmosphere
Unit 6	Weather
Unit 7	Climate
Unit 8	The Human Anatomy (Part 1)
Unit 9	The Human Anatomy (Part 2)
Unit 10	Working in Science

8th Grade

General Science II	
MON800S	General Science II
Unit 1	Science & Society
Unit 2	Structure of Matter - Part 1
Unit 3	Structure of Matter - Part 2
Unit 4	Health & Nutrition
Unit 5	Energy - Part 1
Unit 6	Energy - Part 2
Unit 7	Machines - Part 1
Unit 8	Machines - Part 2
Unit 9	Balance in Nature
Unit 10	Science & Technology

9th Grade

Integrated Physics & Chemistry	
MON900S	Integrated Physics & Chemistry
Unit 1	Explorations in Physical Science
Unit 2	The Structure of Matter
Unit 3	Matter & Change
Unit 4	States of Matter
Unit 5	Motion & Forces
Unit 6	Semester Review & Exam
Unit 7	Work & Energy
Unit 8	Heat Flow
Unit 9	Electricity & Magnetism
Unit 10	Waves
Unit 11	Chemistry & Physics in Our World
Unit 12	Semester Review & Exam
Unit 13	Final Exam

10th Grade

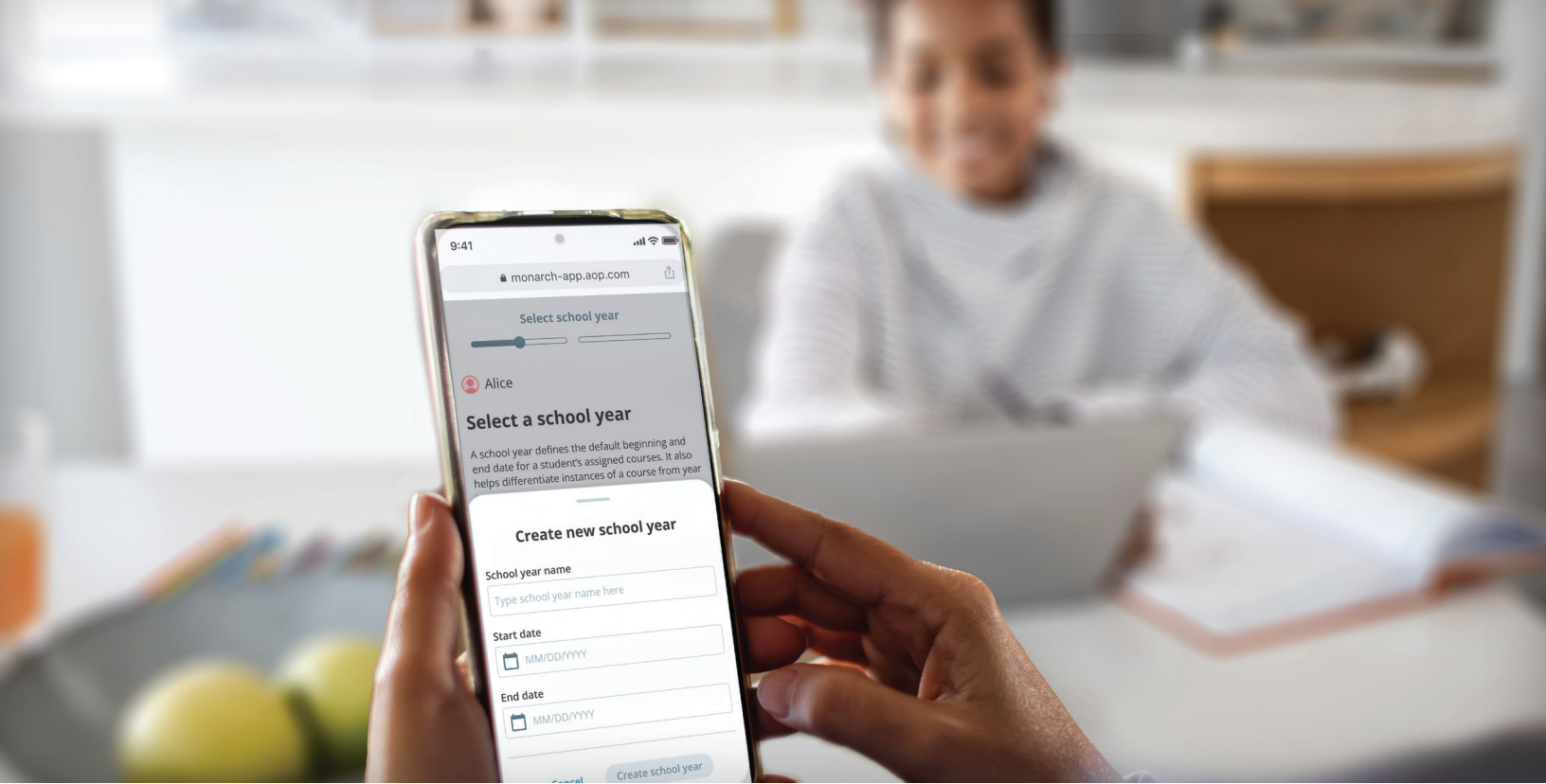
Biology	
MON1000S	Biology
Unit 1	Taxonomy: Key to Organization
Unit 2	Chemistry of Life
Unit 3	Cells
Unit 4	Cell Division & Reproduction
Unit 5	Genetics: God's Plan of Inheritance
Unit 6	Microbiology
Unit 7	Plants: Green Factories
Unit 8	Human Anatomy & Physiology
Unit 9	Ecology, Pollution, & Energy
Unit 10	Principles & Applications of Biology

11th Grade

Chemistry	
MON1100S	Chemistry
Unit 1	Measurement & Analysis
Unit 2	Starting the Investigation: How to Identify Elements, Compounds, & Mixtures
Unit 3	Exploring Laws for Gases & Conservation of Mass
Unit 4	The Discovery of Atoms: Nature's Building Blocks
Unit 5	Molecular Structure
Unit 6	Semester Review & Test
Unit 7	Chemical Reactions, Rates & Equilibrium
Unit 8	Equilibrium Systems
Unit 9	Carbon Chemistry: Hydrocarbons
Unit 10	Carbon Chemistry: Functional Groups
Unit 11	Chemistry Review
Unit 12	Semester Review & Test
Unit 13	Final Exam

12th Grade

Physics	
MON1200S	Physics
Unit 1	Kinematics
Unit 2	Dynamics
Unit 3	Work & Energy
Unit 4	Introduction to Waves
Unit 5	Light
Unit 6	Semester Review & Exam
Unit 7	Static Electricity
Unit 8	Electric Currents
Unit 9	Magnetism
Unit 10	Atomic & Nuclear Physics
Unit 11	Review
Unit 12	Semester Review & Exam
Unit 13	Final Exam



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