



Suggested 5E Lesson Sequences

Introduction

I'm often asked in what order I would teach the 5E lessons, but there is no "correct" order to teach them. Every state and district has different sequencing suggestions, which is why I created the lessons to be independent of each other.

The following pages are suggested sequences of how I would teach the lessons. Please refer to your state and district standards when developing your own scope and sequence.

I'd also suggest the beginning of the year is a great time to focus on lab safety, classroom expectations, and topics like graphing, measurement, and the scientific method. There are station labs for those topics, but not full 5E lessons.

Each full 5E lesson takes about eight to ten days if taught with fidelity. However, there are outliers on each end of that timetable.

A typical 5E lesson could be sequenced like this, assuming 45-minute class periods.

Day 1		Engagement	activity, objectives, access prior knowledge
Day 2		Exploration	station lab day (input stations)
Day 3			station lab day (output stations)
Day 4		Explanation	notes, interactive activities, INB templates, journaling, formative assessments
Day 5			
Day 6		Elaboration	student choice projects (optional inquiry labs)
Day 7			
Day 8			
Day 9		Evaluation	summative test review (escape rooms work well here)
Day 10			summative test

Not every student-choice project or inquiry lab will take two to three days, and some classes get faster at station labs as the year progresses.

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Physical Science

Physical Science

There are 30 total lessons available for physical science; a typical year only has 40 weeks, with some weeks lost to testing. Use your local guidelines to choose those lessons that will address your standards in the time you have.

Force and Motion

- Unbalanced and Balanced Forces
- Net Force
- Motion Graphing
- Speed, Velocity, and Acceleration
- Simple Machines
- Work
- Newton's Laws

Chemistry

- Solids, Liquids, and Gases
- Properties of Water
- Elements and Compounds
- Metals, Nonmetals, and Metalloids
- Periodic Table Trends
- Structure of Atoms
- Molecules
- Counting Atoms and Elements
- Balancing Chemical Equations
- Evidence of Chemical Changes
- Chemical Bonding
- Organic Compounds
- Acids and Bases

Energy

- Advantages and Disadvantages of Renewable Energy Sources
- Advantages and Disadvantages of Non-Renewable Energy Sources
- Conduction, Convection, and Radiation
- Potential and Kinetic Energy
- Energy Transformations
- Properties of Waves
- Sound Waves
- Visible Light (Reflection, Refraction, Diffraction, Absorption)
- Electric and Magnetic Forces
- Photosynthesis (could also be integrated into life science or chemistry)

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Suggested 5E Lesson Sequences

Earth and Space Science

Earth and Space Science

There are 32 total lessons available for Earth and space science; a typical year only has 40 weeks, with some weeks lost to testing. Use your local guidelines to choose those lessons that will address your standards in the time you have.

Space

- Day/Night, Seasons
- Tides
- The Lunar Cycle
- Eclipses
- Solar System Arrangement and Planets
- Asteroids, Meteors, and Comets
- Galaxies and Light Years
- H-R Diagram
- Electromagnetic Spectrum
- Life Cycle of a Star
- Big Bang Theory

Weather

- Water Cycle
- Convection Currents
- Weather Maps and High and Low Pressure
- Atmosphere
- Catastrophic Events
- Hurricane Formation

Earth

- Continental Drift Theory
- Plate Boundaries
- Earth's Layers
- Properties of Minerals
- Rock Cycle
- Earthquakes
- Volcanoes
- Erosion and Deposition
- Density of an Irregular-shaped Object
- Density of a Regular-shaped Object
- Oceans
- Geologic Time Scale
- Fossil Records
- Topographic Maps

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Suggested 5E Lesson Sequences

Life Science

Life Science

There are 32 total lessons available for life science; a typical year only has 40 weeks, with some weeks lost to testing. Use your local guidelines to choose those lessons that will address your standards in the time you have.

Structure of Life

- Characteristics of Organisms
- Cell Theory
- Plant Cells and Animal Cells
- Prokaryotic and Eukaryotic Cells
- Mitosis and Meiosis
- Inherited Traits
- Dichotomous Keys
- Sexual and Asexual Reproduction
- Genetics: Dominant and Recessive Genes, Punnett Squares

Body Systems

- Skeletal System
- Circulatory System
- Muscular System
- Respiratory System
- Digestive System
- Nervous System
- Excretory System
- Endocrine System

Interactions in an Ecosystem

- Biomes
- Abiotic and Biotic Factors
- Food Chains and Food Webs
- Energy Pyramids
- Organism Relationships (parasite/host, predator/prey, consumer/producer, decomposer)
- Classification
- Biodiversity
- Symbiosis - Mutualism, Commensalism, Parasitism
- Natural Selection
- Succession
- Nitrogen Cycle
- Carbon Cycle
- Human Impact on Groundwater and Freshwater (watersheds)
- Short- and Long-Term Environmental Impacts
- Turgor Pressure and Tropisms

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