



Nancy Larson® Science 3 Table of Contents

A: Exploring Our Solar System

- 1 Identifying the early astronomers Copernicus and Galileo
Identifying the Sun as the center of our solar system
Identifying how a telescope is used by astronomers
- 2 Identifying characteristics of the Sun
- 3 Identifying how the Earth's rotation causes day and night
- 4 Describing the Earth's orbit around the Sun
- 5 Identifying what causes the Earth's seasons
- 6 Describing how the Moon rotates and orbits
Identifying characteristics of the Moon's surface
- 7 Describing what the first astronauts to visit the Moon observed
- 8 Identifying and comparing a full Moon and a new Moon
- 9 Identifying the phases of the Moon
- 10 Review 1: Astronomy—Sun, Earth, Moon
- 11 Assessment 1: Astronomy—Sun, Earth, Moon
- 12 Describing planets and moons
Identifying the eight planets in our solar system
Identifying the inner and outer planets
- 13 Describing and comparing asteroids and dwarf planets
- 14 Comparing the distances the planets are from the Sun
- 15 Identifying and comparing the number of moons, rotational times, and orbital times of the planets
- 16 Identifying and comparing characteristics of inner and outer planets
- 17 Identifying characteristics of comets
- 18 Describing meteoroids, meteors, and meteorites
- 19 Review 2: Astronomy—Planets, Asteroids, Dwarf Planets, Comets, Meteors
- 20 Assessment 2: Astronomy—Planets, Asteroids, Dwarf Planets, Comets, Meteors

B: Investigating Elements and Compounds

- 21 Identifying elements on the Periodic Table of the Elements
Identifying the chemical symbols and atomic numbers of elements
- 22 Identifying elements our bodies need to be healthy
Classifying elements as solids, liquids, or gases
- 23 Identifying mineral nutrients in packaged foods and drinks
- 24 Identifying characteristics of compounds
Identifying the elements that combine to make compounds
- 25 Describing atoms and molecules
Identifying the atoms in molecules of elements and compounds
Writing chemical formulas for models of molecules
- 26 Review 3: Chemistry—Elements and Compounds
- 27 Assessment 3: Chemistry—Elements and Compounds

C: Observing Physical and Chemical Changes

- 28 Identifying and describing physical and chemical changes
Observing physical changes
- 29 Observing a chemical change
- 30 Identifying and describing mixtures
Observing and making mixtures
- 31 Identifying characteristics of matter
Measuring mass and volume
- 32 Identifying characteristics of solids, liquids, gases, and plasma
- 33 Describing and demonstrating the movement of molecules in solids, liquids, and gases
- 34 Identifying how a thermometer is used to measure temperature
Identifying common Fahrenheit and Celsius temperatures
- 35 Measuring temperature by using a thermometer
- 36 Making a line graph to represent data
Analyzing data and making predictions from data on a graph
- 37 Describing and observing the physical changes of melting and freezing
- 38 Describing and observing the physical change of vaporizing
Conducting an experiment to determine how surface area affects how quickly water evaporates
- 39 Describing and observing the physical change of condensing
- 40 Review 4: Chemistry—Physical and Chemical Changes
- 41 Assessment 4: Chemistry—Physical and Chemical Changes

Nancy Larson® Science 3 Table of Contents

D: Investigating the Earth's Atmosphere

- 42 Identifying gases in the Earth's atmosphere
Identifying how the Earth's atmosphere helps human beings live and survive on Earth
- 43 Identifying the layers of the Earth's atmosphere
Describing the layers of the atmosphere
- 44 Describing the water cycle
Describing evaporation, condensation, and precipitation
- 45 Describing and identifying five types of clouds
- 46 Describing wind and wind direction
Describing and estimating wind speed
- 47 Describing weather
Describing cloud cover
Identifying types of precipitation
- 48 Describing humidity, air pressure, and UV Index
Recording and analyzing weather data
- 49 Describing characteristics of tornadoes
Identifying safety precautions during tornado warnings
- 50 Describing characteristics of hurricanes
- 51 Review 5: Atmospheric Science—The Earth's Atmosphere
- 52 Assessment 5: Atmospheric Science—The Earth's Atmosphere

E: Exploring the Earth's Structure

- 53 Identifying the Earth's oceans and continents
Identifying characteristics of the Earth's surface
- 54 Identifying and describing the layers of Earth
- 55 Describing how tectonic plates move
Identifying what may occur when tectonic plates move
- 56 Identifying tectonic plates and their movements
- 57 Identifying the causes and effects of earthquakes
- 58 Identifying the causes and effects of volcanoes
- 59 Identifying sources of water and air pollution
Identifying ways to avoid polluting the environment
- 60 Review 6: Geology—The Earth's Structure
- 61 Assessment 6: Geology—The Earth's Structure
- 62 Identifying the causes and effects of weathering
- 63 Classifying rocks by size
Examining and identifying clay, silt, and sand
- 64 Conducting experiments to observe and compare how water interacts with sand, silt, and clay
- 65 Identifying causes and effects of erosion
- 66 Identifying and describing soil horizons
- 67 Identifying how igneous, sedimentary, and metamorphic rocks are formed
- 68 Examining and identifying igneous, sedimentary, and metamorphic rocks
- 69 Describing how fossils are formed
- 70 Review 7: Geology—Rock and Soil
- 71 Assessment 7: Geology—Rock and Soil

F: Investigating Amphibians and Reptiles

- 72 Identifying and describing amphibians
Describing the habitats of amphibians
- 73 Identifying and describing reptiles
Describing the habitats of reptiles
- 74 Describing the body temperatures of amphibians and reptiles
- 75 Describing the life cycle of amphibians
- 76 Describing the metamorphosis of a frog
- 77 Describing the life cycle of reptiles
- 78 Comparing amphibians and reptiles
- 79 Review 8: Herpetology—Amphibians and Reptiles
- 80 Assessment 8: Herpetology—Amphibians and Reptiles