



CURRICULUM MAP
EARTH SCIENCE 9TH GRADE

WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
1	Identify terms associated with course, overview careers associated with earth and space science	Introduction to earth and space themes,	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test Multiple choice tests Oral assessment options Varied length assessment options
2	Understand comparison of uses of pie charts, line charts, bar graphs, etc. Chose the best type for the desired application	Demonstrate proficiency using diagrams, charts, and tables to display information,	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
3	Perform metric measurements of mass and length, area, and volume.	Introduction to measurement	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	Balance; metric ruler; calculator and graduated cylinder AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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5	Review of previous lessons	Review 1	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
6	Discuss the history and structure of the universe, laws of matter in the universe, observations of events and phenomena in the universe	The Universe	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	Study Island OGT prep AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
7	Examination of large distances, long time scales, the nature of nuclear reactions, identification of various galaxies and types of stars, star temperatures, white dwarfs, super-giants, novas, and black holes	Galaxies & Stars	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	Study Island OGT prep AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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9	Identification and location of constellations, gravitation and expansion of constellations and the universe, energy produced by constellations	Constellations	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
10	Identification of objects and events in the solar system, how the solar system has changed through billions of years, orbits, satellites, characteristics of various planets	The Solar System	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
11	Study of interactions among the earth, the oceans, the atmosphere, and organisms, how natural occurrences such as earthquakes and volcanoes affect the surface of the earth, plate tectonics	The Planet Earth	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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13	Learn the origins of flights in Greek mythology, balloons, airships, dirigibles, zeppelins, and airplanes, warplanes, and modern air travel	The History of Flight	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
14	Explore the development of rockets, jet engines, Sputnik, the Mercury program, Gemini, Apollo programs, lunar landing programs, skylabs and crews of each	History of Space Flight	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
15	Review of the solar system, stars, planets, and flight	Review 2	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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17	Learn about cloud cover, the rotation of the earth, static conditions and their effects on weather; weather terms, weather cycles	Formation of Winds 1	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
18	Understand air currents, high and low pressure, global winds, Coriolis effect, doldrums, horse latitudes, trade winds, the jet stream, monsoons, weather satellites	Formation of Winds 2	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
19	Identification of various cloud types, weather symbols, warm fronts, cold fronts, occlusive fronts, and stationary fronts	Clouds & Fronts	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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21	Understand climatology, temperature, latitude, precipitation, oceans, altitude, mountain ranges, climate zones, world climates, climate in the United States	Storms & Climate 2	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
22	Review of atmosphere, winds, weather, storms, and climate	Review 3	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
23	Know the importance of water, forms of water, water as a requirement for life and in the development of civilizations, uses of water, the water cycle, water shortages, and water	The Hydrosphere	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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25	Explore oceanography, structure of ocean floors, the continental shelf, slope, rise, margin, and ocean basins, submarine life, seamounts, reefs, coral, ridges, guyots, abyssal plains, tides, upwelling, and wave features	Ocean Features	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
26	Identification of characteristics and location of sources of fresh water on the earth; life forms found in fresh water; the water cycle and transfer of energy; glacier formation and movement, polar ice caps, life forms that are supported by the ice caps; movement and increase and decrease in size of glaciers and ice caps	Surface Water	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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28	Review of the hydrosphere, oceans, and other water	Review 4	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
29	Identification and examination of layers of the earth, the conditions at each layer, mineral and fossil fuel sources; decay of radioactive isotopes and the production of energy, identification and location of various physical characteristics of the earth's surface; how the surface of the earth has changed through time; heating and cooling of the earth's surface	The Lithosphere	A+ lesson AGS book A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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31	Definition of topography; measurement of various features of the earth, rock sequences and formation; soil types and formation, identification and location of various mountain ranges of the United States and the world	Mountains	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
32	Examination of volcano types, formations, types of eruptions, elements of volcanic eruptions; predicting volcano activity; effects of volcanic activity on the atmosphere	Volcanoes	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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34	Examination of the effects of geochemical cycles on the surface of the earth; the ice ages; extinction of various species, soil types and characteristics; soil movement; soil composition; elements of soil; examination of time and space dimensions and concepts; measuring large lengths of time; identification of various global ages	Weathering & Erosion	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test
35	Identify fossil formation and uses; sources of fossil fuels; using fossils to correlate sequences of geologic time, Examination of animal and plant life in the early ages of the earth; correlation of physical features; food sources, and causes of	Fossils & Dinosaurs	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments	AGS workbook Demonstrations lectures & Labs Teacher Resource Library (CD ROM)	A+ Practice test and Mastery test



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36	Discuss renewable and non-renewable forms of energy; identification of various types of energy including thermal, solar, kinetic, fossil fuel, water power and wind energy; identification and location of natural resources of the earth, technology that allows for the most efficient use, reuse, and conservation of natural resources	Energy	A+ lesson AGS book; A+ auditory option DVD/audio options; Varied learning style delivery of assignments		A+ Practice test and Mastery test