Grade 7 Science

lonth	Topics
September	Lab Safety, Lab Equipment,
	Scientific Method, Graphing, Measuremen
	Measurement includes:
	 units and prefixes (meter, liter, gram, kilo, centi, milli)
	Meniscus and graduated cylinder
	Ruler (cm) (mm)
	Triple Beam Balance (g)
	 Volume I x w x h and irregular objects
	(cm³, ml)
	Skills
	Measuring mass
	Measuring length
	Measuring volume
	 Measuring and calculating density
	Lab Equipment
	Beaker
	Triple beam balance
	Pipette
	Flask
	Tongs
	Test Tube
	Petri dish
	Funnel
	Graduated cylinder
	well-plate
	Scientific Method
	Order of basic steps
	Scientific theory
	Scientific law
	Graphing
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	 Analyzing data from a graph Plotting coordinates from a dat Parts of a line graph

	 Title and units of independent, dependent variable and title of the graph Stating relationships Locating a coordinate when one coordinate is unknown (extrapolation)
October	Chemistry: Atoms, Periodic Table, Physical/Chemical Properties, Gases, Liquids and Solids
November	Geology: Earth, Rocks, Fossils and Plate Tectonics
	 Parts of the Earth Lithosphere Hydrosphere Atmosphere Core, Mantle, crust Minerals rocks and fossils

	Formation and identification: Sedimentary metamorphic arrigneous Identification of minerals Rock cycle Plate tectonics Continental drift Divergent, convergent, subduction, fault Subduction zones Pangea Fossils: Evidence of past life
	Weathering and Erosion
December	Meteorology: Atmosphere, Climate, Weather
January	Astronomy: Sun, Planets, Earth and Moo Review Physical Science Life Functions/Processes -human systems overview -abiotic/biotic
February	Cell Theory and Structure of cells Cell Structure and Function -Organelles - Plant/ Animal -Levels of Organization -Microscope Labs

March	 Traits, Adaptations, Sources of Vari Competition & Selection, Evidence Evolution
	Reproduction: Mitosis, Meiosis
	Development of Plants and Animals
April	Human Systems: Respiratory, Circulatory,Endocrine, Immune, Nervous System
	• Vacation
	Digestive and Excretory
	Reproductive
	Asexual: Animals and Plants Sexual: Animals -gametes- fertilization- zygote
	Internal Fertilization/External Fertilization
	 Plants- flower- pollen- pollination- seed- germination
Мау	Genes and Heredity • Chromosome- Gene- DNA
	Traits-Punnett Squares
	Pedigree Charts
	Evidence of Evolution-Natural Selection, Competition, Adaptations
	Ecology: Ecosystems, Biotic, Abiotic, Habitats, Niches, Biomes

	Feeding Relationships, Food Chains, Food Webs, Symbiotic Relationships
June	Material Cycles, Ecological Succession, Competition, Human Impact on Environmen
	Review