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**Science Lesson Plans
Fourth Grade Curriculum
Total Activities: 115**

Chapter - "Scientific Investigation"-The learner will demonstrate understanding of a process of scientific investigation.		
Lesson Code	Lesson Title and Description	LA Number
1	Questioning Strategies-Demonstrate scientific inquiry and problem solving by using questioning and reasoning strategies.	140 142 519
2	Simple Experiments-Design and conduct simple experiments by asking a scientific question, stating a hypothesis, listing the procedure, recording the results, and communicating the conclusion.	143
4	Displaying Data-Communicate results of scientific investigations by using accurate data displayed on graphs, tables, drawings, and other media.	565
5	Long-Term Investigations-Conduct a long-term investigation. Keep records of investigation and observations, and communicate a conclusion based on these records.	521 550
Chapter - "Changes in Matter & Energy"-The learner will demonstrate understanding of common properties, forms, and		

changes in forms of matter and energy.		
Lesson Code	Lesson Title and Description	LA Number
1	Measuring Matter-Measure the dimensions, weight, and volume of objects, and conclude that objects can be classified according to these common properties.	340 716
2	Measuring Heat-Measure the temperature, conductivity, and solubility of objects, and conclude that objects can be classified according to these common properties.	344 721
3	Physical Changes in Matter-Illustrate physical changes in matter.	350 723
4	Chemical Changes in Matter-Illustrate chemical changes in matter.	352 736
5	Distinguish Types of Change-Distinguish between physical and chemical changes in matter.	359 744
7	Heat as Energy-Recognize and describe heat as a form of energy.	365
8	Flow of Energy-Explain and trace the flow of energy in a system.	751
9	Sources of Energy for Life-Identify sources of energy that organisms need to stay alive and grow.	372 746
11	Machines Effect on Force-Use simple machines to experiment with the effects of force and motion.	381 747
13	Force to an Object-Apply force to an object, and observe that when a force is applied, the object either speeds up, slows down, or changes direction.	769 771
Chapter -"Sound"-The learner will demonstrate understanding of the physical phenomena of sound.		

Lesson Code	Lesson Title and Description	LA Number
1	Basic Principles of Sound-Identify the basic physical phenomena of sound.	332 719
5	Sounds of Music-Identify by sight and sound instruments from the brass, woodwind, string, and percussion families.	40857 40892
Chapter - "Solar System & the Universe"-The learner will demonstrate understanding of the structure of the solar system and the universe and of the interactions among the Earth and other objects in space.		
Lesson Code	Lesson Title and Description	LA Number
1	Formation of Rocks-Identify the physical characteristics and discuss the formation of igneous, metamorphic, and sedimentary rocks.	399 447
2	Composition of Rocks-Understand that rocks are composed of different combinations of minerals.	446
3	Composition of Soil-Describe the composition and properties of soil.	448
4	Earth's Natural Resources-Recognize Earth's natural resources, and explain how they interact with each other.	467 752
5	People/Earth's Interaction-Recognize ways in which people interact with the Earth's natural resources.	232
6	Systems of the Universe-Identify different systems that are found in our universe.	180 725 40802
7	Arrangement of Planets-Understand the arrangement of planets in our solar system.	183 185 40799
8	Mercury-Classify the planets according	188 724

	to size, characteristics, and composition. Learn about the planet Mercury.	40804
9	Venus-Classify the planets according to size, characteristics, and composition. Learn about the planet Venus.	189 728 40810
10	Earth-Classify the planets according to size, characteristics, and composition. Learn about the planet Earth.	201 729
11	Mars-Classify the planets according to size, characteristics, and composition. Learn about the planet Mars.	202 733 40803
12	Jupiter-Classify the planets according to size, characteristics, and composition. Learn about the planet Jupiter.	203 735 40807
13	Saturn-Classify the planets according to size, characteristics, and composition. Learn about the planet Saturn.	204 731 40805
14	Uranus-Classify the planets according to size, characteristics, and composition. Learn about the planet Uranus.	205 730 40806
15	Neptune-Classify the planets according to size, characteristics, and composition. Learn about the planet Neptune.	206 742 40808
16	Pluto-Classify the planets according to size, characteristics, and composition. Learn about the planet Pluto.	207 776 40809
17	Naming of Planets-Investigate the process of how planets are named in our solar system.	208 40797
18	Asteroids-Identify other bodies in space. Learn about asteroids.	210 739

19	Comets-Identify other bodies in space. Learn about comets.	211 758
20	Meteoroids-Identify other bodies in space. Learn about meteoroids.	212 775
21	Satellites-Investigate how satellites are used to gather information about the Earth.	190 778
22	Sun as a Star-Recognize that the Sun is a star and that energy from the Sun can be captured and used for work on Earth.	184 740
23	Earth/Sun/Moon Movement-Demonstrate that the Earth's movement around the Sun and the Moon's movement around the Earth produce the cyclical phases of the Moon.	410 782
24	Effects of Earth Movements-Explain how change of seasons, length of day, and amount of available solar energy depend on the Earth's orbit around the Sun, the Earth's own rotation, and the tilt of the Earth's axis.	431 783
Chapter - "Living Things"-The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment.		
Lesson Code	Lesson Title and Description	LA Number
1	Life Cycle-Explain the growth and life cycle of living things. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	304 686
2	Body Systems-Recognize that the human body contains systems with structures and functions that are highly interdependent. (The learner will	166 780 40801 40811 40813

	demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	40814 40815
3	Vertebrates & Invertebrates-Classify vertebrates and invertebrates according to their characteristics. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	231 539 40798
4	Ecosystems-Illustrate an ecosystem, and discuss interactions of all things within that ecosystem. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	162 228 236 240 734
5	Life & Environment Interact-Discuss basic requirements for plant and animal survival in different environments, and demonstrate understanding that the size of a population depends on the environmental resources available. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	263 643
6	Food Web-Explain relationships in a food web, and provide illustrative examples. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	260 741
7	Plants in the Food Web-Illustrate the	261 631

	function of plants in the food web. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	
8	Consumers in a Food Web-Identify the different types of consumers in a food web. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	644
9	Man Threatens Environment-Identify some man-made threats to the environment. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	241 685
10	Changes in Ecosystems-Discuss how changes in an ecosystem may be harmful, beneficial, or both. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	473 474
11	Protecting Natural Systems-Recognize that there is a need to protect the natural systems of Earth. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	262 283
12	Recycling-Explain how recycling used materials and reducing the use of natural resources can improve and	497 498

	protect the quality of life on Earth. (The learner will demonstrate understanding of the characteristics, structures, and functions of living things and of how living things interact with one another and their environment).	
Chapter - "Custom Curriculum"-Custom Curriculum		
Lesson Code	Lesson Title and Description	LA Number
7	Custom Standard-Custom Standard	

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