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**Science Lesson Plan  
3rd Grade Curriculum  
Total Activities: 134**

Chapter - "Scientific Investigation"-The learner will demonstrate understanding of a process of scientific investigation.		
Lesson Code	Lesson Title and Description	LA Number
1	Use of Instruments-Identify various instruments used to collect and analyze data.	3624 3625
2	Working Collaboratively-Describe benefits and challenges of working collaboratively. Recognize that teammates should be free to reach, explain, and justify their individual conclusions.	3626 3627
3	Comparing & Contrasting-Identify and use the essential science skills of comparing and contrasting when making observations.	3628 3629
4	Show Scientific Ideas-Use sketches, diagrams, and models to represent scientific ideas.	3630 3631
5	Predictions & Inferences-Make predictions and inferences based on observations.	3632 3633
6	Use of Tables & Graphs-Use tables and	3634

	graphs to identify patterns of change.	3635
7	Scientific Contributions-Use reference materials to obtain information about the contributions of Alexander Graham Bell (sound), Copernicus (astronomy), Mae Jemison (exploration of space), and John Muir (ecology).	3636 3637
8	Explaining Concepts-Conclude that events or concepts can be explained by collecting, organizing, and interpreting data.	3638 3639
10	Scientific Discoveries-Identify specific scientific discoveries that have helped or hindered scientific progress in understanding human health and the environment.	3642 3643
11	Scientific Processes-Describe how the use of scientific knowledge can help people solve problems, make decisions, and form new ideas.	3644 3645
Chapter -"Nature of Matter"-The learner will demonstrate basic understanding of the nature of matter.		
Lesson Code	Lesson Title and Description	LA Number
1	Physical Properties-Determine the physical properties of matter using customary and metric measurements that incorporate tools such as rulers, thermometers, and balances.	3540 3541
2	Physical Changes-Identify matter as liquids, solids, and gases. Identify and describe examples of physical changes in the states of matter produced by heating and cooling.	3542 3543
3	Weight-Investigate and realize that the weight of an object is equal to the sum of the weights of its parts.	3544 3545
4	Observation-Use hand lenses to observe	3546

	and document minute physical properties of objects.	3547
Chapter -"Energy, Force and Motion"-The learner will demonstrate general understanding of energy, force, and motion.		
Lesson Code	Lesson Title and Description	LA Number
1	Heat & Light Objects-Identify objects that emit heat and light.	3648 3649
2	Forms of Energy-Identify different forms of energy, such as heat, light, and sound.	3609 3650 3651
3	Role of Sun-Demonstrate an understanding that the Sun provides energy for Earth in the form of heat and light.	3652 3653
4	Sources of Heat-Demonstrate understanding that heat can be produced by chemical reactions, electrical machines, and friction.	3654 3655
5	Measuring Energy-Identify and use a variety of tools to measure the gain or loss of energy.	3656
6	Heat Transference-Demonstrate understanding that when a warmer object comes in contact with a cooler one, the warm object loses heat and the cool one gains it (until they are both the same temperature).	3658 3659
7	Energy for Life-Demonstrate understanding that some source of energy is needed for organisms to stay alive and grow.	3661
8	Natural Resources-Identify natural resources and their importance.	3662 3663
9	Renewable/Nonrenewable-Classify resources as renewable or nonrenewable.	3664 3665

	Describe uses for renewable and nonrenewable resources.	
10	Effects on Environment-Identify ways that using natural resources for producing energy affects the environment.	3666 3667
11	Energy Causes Motion-Describe how energy is necessary to create a force that can cause motion.	3668 3669
12	Motion of Objects-Describe the motion of various objects, including forward, circular, and wave motions.	3670 3671
13	Elements of Waves-Identify the characteristics of waves, including crest, trough, and length.	3672 3673
14	Simple Machines-Identify these six types of simple machines: screw; inclined plane; wedge; pulley; lever; wheel and axle.	3674
15	Force Causes-Demonstrate understanding that force causes change.	3676 3677
16	Position/Direction of Objects-Measure and record changes in the position and direction of the motion of an object on which force (such as a push or pull) has been applied.	3679
Chapter - "Effects on the Shape of Earth"-The learner will demonstrate basic understanding of processes that shape Earth.		
Lesson Code	Lesson Title and Description	LA Number
1	Factors of Surface Changes-Demonstrate understanding that the surface of Earth can be changed by forces such as earthquakes, glaciers, and volcanoes.	3548 3549 34003
2	Origins of Small Rocks-Demonstrate understanding that smaller rocks come	3550 3551

	from the breaking and weathering of bedrock and larger rocks.	
3	Amount of Water-Demonstrate understanding that about 75 percent of Earth's surface is covered by water, and describe the stages of the water cycle.	3552 3553
4	Weathering & Erosion-Identify and describe characteristics of the process of weathering and erosion, such as weathering of landforms and erosion of soil.	3554 3555 34002 34012
5	Recycling-Identify and describe reusing, recycling, and reducing and how these processes improve and protect the condition of Earth.	3556 3557 34011
Chapter -"Ecology"-The learner will demonstrate basic understanding of ecology.		
Lesson Code	Lesson Title and Description	LA Number
1	Habitats-Identify habitats and the relationships among organisms and their environment.	3558 3559
2	Balance of Nature-Describe the concept of the balance of nature, and know that nature is constantly changing.	3560 3561
3	Food Chain-Identify and describe the food chain: producers, consumers, and decomposers.	3562 3563
4	Effects on Ecosystems-Identify the concept of an ecosystem and how ecosystems can be affected by changes in environment such as precipitation, food supply, and changes caused by humans.	3564 3565
5	Environmental Threats-Identify and describe man-made threats to the Environment (such as air and water pollution caused by emissions, smog, industrial waste, and chemical run-off).	3566 3567

6	Environmental Protection-Describe measures people can take to protect the environment.	3568 3569
7	Extinction-The learner will understand that some kinds of organisms that once lived on earth have completely disappeared.	34014
Chapter -"Custom Curriculum"-Custom Curriculum		
Lesson Code	Lesson Title and Description	LA Number
6	Custom Standard-Custom Standard	
Chapter -"Life/Environment Interact"-The learner will demonstrate basic understanding of living organisms and how they interact with their environment.		
Lesson Code	Lesson Title and Description	LA Number
1	Animal & Plant Link-Describe the various ways that animals depend on plants for survival (including food, shelter, and oxygen).	3570 3571 34013
2	Modifying the Environment-Describe how living organisms (for example, beavers and birds) modify their physical environment to meet their needs.	3572 3573
11	React to Changing Environment-Understand that when the environment changes, some plants and animals survive and reproduce, and others die or move to new locations.	34033
12	Extinction-Identify organisms that once lived on earth, and have completely disappeared.	34034
3	Vertebrate Animals-Identify the distinguishing characteristics of vertebrate animals (mammals, birds, fish, reptiles, and amphibians).	3574 3575 3680 33999

4	Invertebrate Animals-Identify the distinguishing characteristics of invertebrate animals: flatworms, centipedes, sun jellyfish, black widow spiders, and octopuses.	3576 3577
5	Comparing Plants-Identify similarities and differences among plants.	3578 3579
6	Compare Plants & Animals-Identify similarities and differences between plants and animals. (Similarities include: both plants and animals have structures for reproduction, respiration, and growth.)	3580 3581
7	Organism Competition-Identify ways that organisms with similar needs compete with one another for resources (such as oxygen, water, food, and space).	3582 3583
8	Organisms & Animals Adapt-Identify behavioral and structural adaptations that allow plants and animals to survive in an environment.	3584 3585 34035 34038
9	Classifying Organisms-Demonstrate understanding that living organisms get energy from the food they eat and that living things are classified as producers, consumers, carnivores, herbivores, and omnivores.	3586 3587
10	Population Constraints-Demonstrate understanding that the size of a population is dependent upon the available resources.	3588 3589
Chapter -"Light & Sound"-The learner will demonstrate basic understanding of light and sound.		
Lesson Code	Lesson Title and Description	LA Number
1	Travel of Light-Demonstrate understanding that light travels in straight lines at extremely high speeds (and forms shadows).	3590 3591

5	Uses for Lenses-Identify and describe uses for lenses. (These include: magnification, microscopes, cameras, and telescopes).	3598 3599
6	Characteristics of Sound-Identify the characteristics of sound. (Some characteristics include: an object vibrating rapidly causes sound; sound travels through solids, liquids, and gases; sound travels much slower than light).	3600 3601
7	Qualities of Pitch-Identify and describe the qualities of pitch (high or low) and intensity (loudness and softness).	3602 3603
8	Human Voice & Hearing-Demonstrate understanding about hearing (how the ear works), and how to protect your hearing. Demonstrate understanding about the human voice. (The larynx has vibrating vocal cords. Longer, thicker cords create lower, deeper voices).	3604
Chapter - "Astronomy"-The learner will demonstrate basic understanding of astronomy.		
Lesson Code	Lesson Title and Description	LA Number
1	Universe & Galaxies-Identify and describe the universe and galaxies, including the Milky Way and Andromeda.	3606 3607
3	Effects of Planetary Motions-Identify the planetary motions of rotating and revolving and their effects on Earth, including the causes of day, night, and the seasons. Also identify where the sun rises (east) and sets (west), that days and nights change in length throughout the year, and the effect of the earth's tilted axis on the seasons.	3610 34032
4	Gravitational Effects-Demonstrate an understanding of the gravitational effect of the Moon (and to a lesser degree, the	3612



	Sun) on the Earth's tides.	
6	Asteroid, Meteor, Comet-Identify characteristics of asteroids, meteoroids, and comets (include Haley's comet).	3616 3617
7	Solar Eclipse-Describe the cause of a solar eclipse.	3618 3619
9	Space Exploration-Investigate and record data about space exploration that includes telescopes, rockets, satellites, the first moon landing, by <i>Apollo 11</i> , and the space shuttles.	3622 3623
Chapter -"Eras on Earth"-The learner will discover the Mesozoic Eras on Earth.		
Lesson Code	Lesson Title and Description	LA Number
1	Mesozoic Era-The learner will discover the Mesozoic Eras on Earth.	34029 34030 34031

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