

5th Grade Curriculum Map

Publisher/Series - Nancy Larson - Grade 5

Month	Objectives/Learning Goals	Applicable State & National Learning Standards	Assessments
August	<u>Topic A: Exploring the Universe</u> 1. Identifying tools astronomers use to explore the universe. 2. Constructing a Galilean refracting telescope. 3. Describing constellations and asterisms. Locating the asterisms the Big Dipper and the Little Dipper on a sky map. 4. Identifying factors that determine which stars and constellations we see. Locating constellations on a sky map. 5. Describing and classifying galaxies. Describing the Milky Way Galaxy.	PS4B, PS2C, PS4C, ESS1A, ESS1B, ETS2A, ETS2B	Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.
September	<u>Topic A: Exploring the Universe</u> 6. Identifying the stages in the life cycles of stars. 7. Describing the life cycles of stars. 8. Review 1: Astronomy - Exploring the Universe 9. Assessment 1: Astronomy - Exploring the Universe 10. Identifying characteristics of our solar system. Identifying characteristics of our Sun. 11. Describing the planets in our solar system. 12. Comparing and contrasting the planets. 13. Identifying characteristics of asteroids, meteoroids, dwarf planets, and comets.	PS2B, PS3B, PS4B, PS2C, ESS1A, ESS1B	Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments.

October	<p><u>Topic A: Exploring the Universe</u></p> <p>14. Describing the two motions of Earth. Identifying the cause of day and night on Earth. Identifying why the Sun, Moon, and stars appear to move across the sky.</p> <p>15. Identifying the causes of the Earth's seasons.</p> <p>16. Comparing the number of hours of daylight at different times of the year. Constructing a graph to show changing hours of daylight.</p> <p>17. Identifying the phases of the Earth's moon.</p> <p>18. Identifying how solar and lunar eclipses occur.</p> <p>19. Review 2: Astronomy - Exploring Our Solar System</p> <p>20. Assessment 2: Astronomy - Exploring Our Solar System</p>	PS2C, PS3B, PS4B, ESS1B,	Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.
November	<p><u>Topic B: Examining the Structure of Matter</u></p> <p>21. Identifying elements that make up matter. Identifying and interpreting information on the Periodic Table of Elements.</p> <p>22. Classifying elements as metals, non-metals, or metalloids. Describing properties of elements.</p> <p>23. Describing the structure of an atom.</p> <p>24. Identifying valence electrons. Using diagrams to represent atoms of elements.</p> <p>25. Describing compounds. Identifying organic and inorganic compounds. Identifying elements in a chemical formula.</p> <p>26. Identifying what happens during chemical bonding. Describing metallic bonding.</p> <p>27. Describing ionic bonding.</p> <p>28. Describing covalent bonding.</p>	PS1A, PS1B	Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.

December	<p><u>Topic B: Examining the Structure of Matter</u> 29. Identifying the structural formula of a molecule. 30. Review 3: Chemistry - Examining the Structure of Matter 31. Assessment 3: Chemistry - Examining the Structure of Matter</p> <p><u>Topic C: Investigating Matter and Its Interactions</u> 32. Classifying matter as a pure substance or a mixture. Identifying mixtures as homogeneous or heterogeneous. 33. Classifying mixtures as solutions, colloids, or suspensions.</p>	PS1A, PS1B, PS3A	Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.
January	<p><u>Topic C: Investigating Matter and Its Interactions</u> 34. Identifying characteristics of solids, liquids, gases, and plasmas. 35. Identifying phase changes when heat is added. 36. Identifying phase changes when heat is removed. 37. Observing and describing cohesion, surface tension, and adhesion. 38. Observing and identifying physical changes. 39. Identifying physical properties of matter. 40. Comparing the viscosity of liquids.</p>	PS1A, PS1B, PS3A, PS4B, ETS1A, ETS1B	Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.
February	<p><u>Topic C: Investigating Matter and Its Interactions</u> 41. Conducting a viscosity experiment. 42. Review 4: Chemistry - Investigating Physical Properties of Matter 43. Assessment 4: Chemistry - Investigating Physical Properties of Matter 44. Measuring temperature. 45. Measuring the mass of solids and liquids. 46. Measuring the volume of liquids and solids.</p>	PS1A, ETS1A, ETS2A, ETS1B, ETS1C	Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.

<p>March</p>	<p><u>Topic C: Investigating Matter and Its Interactions</u> 47. Measuring the volume of rectangular solids. 48. Describing density. Comparing the density of metals. 49. Comparing the density of solids and liquids. 50. Observing and identifying characteristics of chemical changes. Identifying endothermic and exothermic chemical reactions. 51. Observing and describing chemical reactions: combustion, synthesis, and decomposition. 52. Describing chemical reactions: neutralization. Identifying acids and bases. 53. Review 5: Chemistry - Investigating Matter and Its Interactions 54. Assessment 5: Chemistry - Investigating Matter and Its Interactions</p>	<p>PS1A, PS1B, PS3C, ETS2A</p>	<p>Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.</p>
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<p>April</p>	<p><u>Topic D: Examining the Interactions of the Earth's Systems</u></p> <p>55. Identifying Earth's four major systems. Describing how human activities cause changes to the environment and affect Earth's systems.</p> <p>56. Describing the layers of the geosphere. Describing how the movement of tectonic plates causes changes to the geosphere.</p> <p>57. Describing and observing processes that change the geosphere: weathering, erosion, and deposition.</p> <p>58. Describing how erosion and deposition change the geosphere. Describing and observing fossils.</p> <p>59. Classifying rocks. Describing the rock cycle. Identifying rocks and minerals.</p> <p>60. Describing the layers of the atmosphere. Describing the effects of greenhouse gases and ozone.</p> <p>61. Describing weather conditions. Describing characteristics of air masses.</p> <p>62. Describing the hydrosphere. Identifying sources of saline and fresh water.</p> <p>63. Describing the water cycle. Identifying and describing natural disasters.</p> <p>64. Describing climate. Identifying and describing climatic regions.</p> <p>65. Describing terrestrial biomes.</p> <p>66. Describing freshwater and marine regions of the aquatic biome.</p> <p>67. Earth Day Lesson: April 22 - Describing the effects of forests on the Earth's system. Identifying ways to protect forests.</p> <p>68. Review 6: Environmental Science - Examining the Interactions of the Earth's Systems</p> <p>69. Assessment 6: Environmental Science - Examining the Interactions of the Earth's Systems</p>	<p>PS2C, PS3B, PS3D, ESS1C, ESS2A, ESS2B, ESS3B, ESS2C, ESS2E, ESS3A, ESS3C, ESS2D, ESS3D, ETS2A, LS1A, LS2A, LS2B, LS2C, LS1C, LS1D, LS4C, LS4D,</p>	<p>Students will have various assessments throughout the month of learning. They will have worksheets, class discussions, videos, photos, charts and diagrams, and written assessments to show demonstrate their learning.</p>
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