

4th Grade Science Curriculum Map

Publisher/Series - Nancy Larson Science (2021)

Month	Objectives/Learning	Applicable State &	Assessments
August	<p>Students will study Topic A Exploring the Characteristics of Cells lessons 1-5. In these lessons they will study: lesson 1- Identifying biology as the study of life Identifying characteristics of organisms Identifying a cell as the smallest unit of an organism, Lesson 2- Using a microscope to observe a specimen, Lesson 3- Identifying parts of a microscope Using a microscope to observe a cheek cell Identifying the nucleus of a cheek cell, Lesson 4- Describing the functions of structures in animal cells, and lesson 5- Describing the functions of structures in plant cells.</p>	<p>1-LS1A 2- PS4C, ETS2A, ETS2B 3- PS4C, ETS2A, LS1A 4- LS1A 5- ETS2A, LS1A</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.</p>

<p>September</p>	<p>Students will study Topic A Exploring the Characteristics of Cells lessons 6-11. In these lessons they will study: Lesson 6- Describing fungus cells Comparing and contrasting animal, plant, and fungus cells, Lesson 7- Identifying characteristics of eukaryotic cells Identifying organisms with eukaryotic cells Using a microscope to observe protists, Lesson 8- Identifying characteristics of prokaryotic cells Identifying organisms with prokaryotic cells Classifying organisms as single-celled or multi-celled, Lesson 9- Classifying organisms into domains Identifying kingdoms of eukaryotes, Lesson 10- Review 1: Biology—Exploring the Characteristics of Cells, and lesson 11- Assessment 1: Biology—Exploring the Characteristics of Cells. We will also start Topic B- Examining and Classifying Plants Lesson 12- Describing the function of vascular tissues Identifying vascular and nonvascular plants.</p>	<p>6- LS1A 7- ETS2A, LS1A 8- LS1A 9- LS4D 12- LS1A, LS1C, 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.</p>
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<p>October</p>	<p>Students will study Topic B- Examining and Classifying Plants lessons 12-17. In these lessons students will study: Lesson 12-Describing the function of vascular tissues Identifying vascular and nonvascular plants, Lesson 13- Describing how plants make their own food through the process of photosynthesis, Lesson 14- Describing ways plants reproduce, Lesson 15- Conducting a one-variable experiment Identifying the steps in the scientific method, Lesson 16- Review 2: Botany— Examining and Classifying Plants—Part 1, and Lesson 17- Assessment 2: Botany— Examining and Classifying Plants—Part 1.</p>	<p>12- LS1A, LS1C, ETS2A 13- PS3D, ESS2E, LS1A, LS1C, LS2B 14- LS1A, LS1B 15- LS1B</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.</p>
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<p>November</p>	<p>Students will study Topic B- Examining and Classifying Plants lessons 18-23. In these lessons students will study: Lesson 18- Describing gymnosperms Describing leaves of gymnosperms, Lesson 19- Using a resource book to locate information about gymnosperms, Lesson 20- Describing the life cycle of gymnosperms, Lesson 21- Describing angiosperms Describing the structure and function of flowers, Lesson 22- Describing seed development in angiosperms, and Lesson 23- Describing the life cycle of angiosperms. There is also a quiz this month.</p>	<p>18- LS1A 19- LS3B 20- LS1A, LS1B 21- LS1A, LS1B 22- LS1A, LS1B 23- LS1A, LS1B</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.</p>
<p>December</p>	<p>Students will study Topic B- Examining and Classifying Plants lessons 23-27. In these lessons students will study: Lesson 23- Describing the life cycle of angiosperms, Lesson 24- Describing leaves of angiosperms, Lesson 25- Using a dichotomous key to identify trees, Lesson 26- Review 3: Botany—Examining and Classifying Plants—Part 2, and Lesson 27-Assessment 3: Botany—Examining and Classifying Plants—Part 2.</p>	<p>23- LS1A, LS1B 24- LS1A 25- ETS1A</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.</p>

<p>January</p>	<p>Students will study Topic C- Investigating Characteristics of Animals lessons 28-30. In these lessons students will study: Lesson 28- Identifying vertebrates and invertebrates, Lesson 29- Identifying characteristics of vertebrates, and Lesson 30- Classifying vertebrates. There is also a research paper on Vertebrates that is done this month.</p>	<p>28- LS1A 29- LS1A, LS1D 30- LS1A</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.</p>
<p>February</p>	<p>Students will study Topic C- Investigating Characteristics of Animals lessons 31-35. In these lessons students will study: Lesson 31- Identifying characteristics of classes of vertebrates, Lesson 32- Describing the life cycles of vertebrates, Lesson 33- Review 4: Zoology—Investigating Characteristics of Animals—Part 1, Lesson 34- Assessment 4: Zoology—Investigating Characteristics of Animals—Part 1, and Lesson 35- Identifying animals that are invertebrates Identifying and describing annelids, cnidarians, and echinoderms.</p>	<p>31- LS1A, LS1B, LS1C 32- LS1B 35- LS1A</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.</p>

<p>March</p>	<p>Students will study Topic C- Investigating Characteristics of Animals lessons 36-40. In these lessons students will study: Lesson 36- Identifying and describing mollusks, Lesson 37- Identifying characteristics of arthropods Identifying characteristics of insects, Lesson 38- Describing the metamorphosis of insects Observing the larva of an insect, Lesson 39- Identifying characteristics of arachnids and other arthropods, and Lesson 40- Classifying animals according to what they eat. We also observed and recorded observations of mealworms during the month.</p>	<p>36- LS1A 37- LS1A 38- LS1A, LS1B 39- LS1A 40- LS1A, LS1C, LS2A</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.</p>
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<p>April</p>	<p>Students will study Topic C- Investigating Characteristics of Animals lessons 41-43. In these lessons students will study: Lesson 41- Describing how animals obtain energy, Lesson 42- Review 5: Zoology— Investigating Characteristics of Animals—Part 2, and Lesson 43- Assessment 5: Zoology— Investigating Characteristics of Animals—Part 2. Students will begin Topic D Examining Ecosystems lessons 44-50. In these lessons students will study: Lesson 44- Identifying characteristics of ecosystems, Lesson 45- Describing producers, consumers, and decomposers in an ecosystem, Lesson 46- Identifying producers and consumers in a food chain, Lesson 47-Describing food webs Identifying food chains in a food web, Lesson 48- Describing symbiotic relationships between organisms, Lesson 49- 49 Review 6: Ecology—Examining Ecosystems—Part 1, and Lesson 50- Assessment 6: Ecology—Examining Ecosvstems—Part 1.</p>	<p>41- PS3D, ESS2E, ESS3A, LS1A, LS1C, LS2A, LS2B 44- LS2A, LS2D, LS4D 45- LS1C, LS2A, LS2B, LS4D 46- PS3D, LS1C, LS2A, LS2B, LS4D 47-PS3D, LS1C, LS2A, LS2B, LS4D 48 LS1A, LS1C, LS2A, LS2B, 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.</p>
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