

4th Grade Science Year-at-a-Glance 2024-2025

Big Idea	Standards Addressed	Pacing
Nature of Science (August 13-23)		
Big Idea 1: The Practice of Science Big Idea 2: The Characteristics of Scientific Knowledge	SC.4.N.1.1 the Scientific Method SC.4.N.1.2 comparing observations made by different groups using multiple tools SC.4.N.1.3 Science does not always follow a defined method, observations, and empirical evidence SC.4.N.1.5 compare methods and results SC.4.N.1.6 Keep records, observations vs. inferences SC.4.N.1.7 explanations based on evidence	August 13 – August 23 (9 days)
Earth Science (August 26 – October 23)		
Big Idea 5: Earth in Space and Time	SC.4.E.5.4 rotation and apparent movement of Sun, Moon, and stars <ul style="list-style-type: none"> SC.4.E.5.1 patterns of stars shifting in sky, different seasons SC.4.E.5.2 observable shape of the Moon SC.4.E.5.3 revolution/rotation Also Assessed: SC.3.E.5.1 , SC.3.E.5.2 , SC.3.E.5.3 ,	August 26 – September 19 (18 days)
Big Idea 6: Earth Structures	SC.4.E.6.2 mineral properties <ul style="list-style-type: none"> SC.4.E.6.1 types of rocks SC.4.E.6.3 natural resources; renewable vs. nonrenewable <ul style="list-style-type: none"> SC.4.E.6.6 Florida resources SC.4.E.6.4 physical weathering and erosion	September 20 – October 23 (22 days)
Nature of Science (October 24 – November 5)		
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Physical Science (November 6 – February 1)		
Thanksgiving Break November 25 – November 29		
Big Idea 8: Properties of Matter Big Idea 9: Changes in Matter	SC.4.P.8.1 measure and compare objects and materials based on physical properties SC.4.P.8.4 magnets attract magnetic materials; attract/repel other magnets SC.4.P.9.1 chemical changes Also Assessed: SC.3.P.8.1 , SC.3.P.8.2 , SC.3.P.8.3 , SC.3.P.9.1	November 6 – December 6 (18 days) Unit split over break

Winter Break December 23 – January 3 4th Grade Formative Mid-Year Check Dec 9 - 11		
Big idea 10: Forms of Energy Big Idea 11: Energy Transfer and Transformations	SC.4.P.10.1 observe/describe basic forms of energy SC.4.P.10.3 sound is produced/pitch SC.4.P.10.2 energy causes motion/creates change SC.4.P.10.4 moving water and air as sources of energy SC.4.P.11.1 flow of heat SC.4.P.11.2 materials that conduct heat well/poorly Also Assessed: SC.3.P.10.1 , SC.3.P.10.3 , SC.3.P.10.4 , SC.3.P.11.1 , SC.3.P.11.2 , SC.3.P.10.2 , SC.3.E.6.1	December 12 – January 24 (18 days) Unit split over break
Big Idea 12: Motion of Objects Big Idea 13: Forces and Changes in Motion	SC.4.P.12.1 object in motion changes position/direction SC.4.P.12.2 speed of an object Also Assessed: SC.3.E.5.4	January 27 – February 11 (12 days)
Science Projects (February 12 – February 28)		
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Life Science (March 3 – May 9)		
Spring Break March 17 – March 21		
Big Idea 16: Heredity and Reproduction	SC.4.L.16.1 process of sexual reproduction in flowering plants SC.4.L.16.4 FL plants/animals, metamorphosis, (non)flowering SC.4.L.16.2 plants/animal traits are inherited; some affected by environment SC.4.L.16.3 animal behaviors shaped by heredity and learning Also Assessed: SC.3.L.14.1 , SC.3.L.14.2 , SC.3.L.15.2 , SC.3.L.17.2	March 3 – April 7 (21 days) Unit split over break
Big Idea 17: Interdependence	SC.4.L.17.1 , seasonal changes in Florida plants and animals to other locations SC.4.L.17.2 animals do not make their own food, stored energy/passed SC.4.L.17.3 food chains SC.4.L.17.4 plant and human impact Also Assessed: SC.3.L.15.1 , SC.3.L.17.1	April 8–May 9 (22 days)
SCIENCE AND ENGINEERING SHOWCASE – May , 2024 (School submissions due by April 22, 2025) 4th Grade End-Year Formative Check (complete 3 day window within May 12- May 28 timeframe)		
Step-Up to 5 th Grade: Cubelets STEM Unit	SC.5.P.10.1 forms of energy SC.5.P.10.2 energy and motion SC.5.P.10.4 electrical energy/energy transformation	May 12 – May 28 (12 days)