

South Florida Science Center Educator Guide Aligned with
The School District of Palm Beach County Scope and Sequence 2021 - 2022

Grades K - 5

Grade	Recommended Pacing & Big Ideas	Unit Essential Question	Benchmarks	SFSCA Program	SFSCA Program Guide
Pre-K Kindergarten	Aug 23rd - Dec 3rd <u>Big Ideas:</u> The Practice of Science, Organization and Development of Living Organisms	What are our senses and what is science? What are characteristics of living things? How can I show the parts of an object?	SC.K.N.1.1-5 SC.K.L.14.1-3 HE.K.C.1.5	All About Me Ocean Commotion Creepy Crawlies One World One Sky Kaluaka'hina: The Enchanted Reef	Pg 5 Pg 5 Pg 5 Pg 5 Pg 5
Pre-K Kindergarten	Dec 6th - Jan 28th <u>Big Ideas:</u> Properties of Matter, Changes in Matter	How are objects sorted and changed?	SC.K.P.8.1 SC.K.P.9.1	Balloons and Bubbles Space Explorers Wacky Weather We are the Dinosaurs	Pg 5 Pg 5 Pg 5 Pg 5
Pre-K Kindergarten	Jan 31st - Apr 6th <u>Big Ideas:</u> Forms of Energy, Motion of Objects, Forces and Change in Motion	How are sound and motion alike?	SC.K.P.10.1 SC.K.P.12.1 SC.K.P.13.1	Balloons and Bubbles Squishy Circuits	Pg 5 Pg 5
Pre-K Kindergarten	Apr 7th - May 26th <u>Big Ideas:</u> Earth in Space and Time	What can the sky tell me?	SC.K.E.5.1-6	Space Explorers One World One Sky	Pg 5 Pg 5
1st	Aug 23rd - Oct 6th <u>Big Ideas:</u> The Practice of Science	What are senses and other tools?	SC.1.N.1.1-4	Astronaut Bugs! A Rainforest Adventure Solar System Odyssey Investigating Insects Everglades: All About the Alligator Chemical Concoctions Nitromania	Pg 6 Pg 6 Pg 6 Pg 7 Pg 7 Pg 7 Pg 7
1st	Oct 7th - Jan 21st <u>Big Ideas:</u> Organization and Development of Living Things, Interdependence, Heredity and Reproduction	What are living and non-living things? What do living things need? Which living things look like their parents?	SC.1.L.14.1-3 SC.1.L.16.1 SC.1.L.17.1	Bugs! A Rainforest Adventure Squid Dissection Everglades: All About the Alligator Investigating Insects Pollinating Plants and Flower Dissection Shark Tooth Lab Heart in Motion	Pg 6 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7
1st	Jan 24th - Mar 11th <u>Big Ideas:</u> Properties of Matter, Motion of Objects, Forces and Changes in Motion	What can we observe about objects? How do objects move?	SC.1.P.8.1 SC.1.P.12.1 SC.1.P.13.1	Chemical Concoctions Circuit Science Exciting Electrons Nitromania Newton Olympics	Pg 7 Pg 7 Pg 7 Pg 7 Pg 7
1st	Apr 25th - May 26th <u>Big Ideas:</u> Earth in Space and Time	What can we see in the sky?	SC.1.E.5.1-4	Astronaut Solar System Odyssey Stars and Constellations	Pg 6 Pg 6 Pg 6
2nd	Aug 23rd - Sep 24th <u>Big Ideas:</u> The Practice of Science	How do we use inquiry skills?	SC.2.N.1.1-6	Bugs! A Rainforest Adventure Astronaut Investigating Insects	Pg 6 Pg 6 Pg 7

2nd	Sep 27th - Oct 25th <u>Big Ideas:</u> Interdependence, Heredity and Reproduction, Organization and Development of Living Things	What are the needs of living things? What are the cycles and parts of living things?	SC.2.L.17.1 SC.2.L.17.2 SC.2.L.16.1 SC.2.L.14.1 HE.2.C.1.5	Bugs! A Rainforest Adventure Astronaut Squid Dissection Everglades: All About the Alligator Investigating Insects Pollinating Plants and Flower Dissection Shark Tooth Lab Heart in Motion	Pg 6 Pg 6 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7
2nd	Dec 6th - Feb 3rd <u>Big Ideas:</u> Properties of Matter, Changes in Matter	What are properties of matter? How does matter change?	SC.2.P.8.1-6 SC.2.P.9.1	Chemical Concoctions Nitromania	Pg 7 Pg 7
2nd	Feb 4th - Mar 31st <u>Big Ideas:</u> Forms of Energy, Forces and Changes in Motion	How do we use energy? What are forces?	SC.2.P.10.1 SC.2.P.13.1-4	Exciting Electrons Circuit Science Newton Olympics	Pg 7 Pg 7 Pg 7
3rd	Aug 16th - Sep 15th <u>Big Ideas:</u> The Practice of Science	How do scientists investigate questions?	SC.3.N.1.1-7 SC.3.N.3.1-3	Bugs! A Rainforest Adventure Dinosaurs Alive Shark Tooth Lab Investigating Insects Everglades: All About the Alligator	Pg 6 Pg 6 Pg 7 Pg 7 Pg 7
3rd	Sep 17th - Dec 22nd <u>Big Ideas:</u> The Organization and Development of Living Things, Interdependence, Diversity and Evolution of Living Organisms	How do living things change with the seasons? How do we classify living things?	SC.3.L.14.1 SC.3.L.14.2 SC.3.L.17.2 SC.3.L.15.1 SC.3.L.15.2 SC.3.L.17.1 HE.3.C.1.5	Bugs! A Rainforest Adventure Dinosaurs Alive Squid Dissection Everglades: All About the Alligator Investigating Insects Pollinating Plants and Flower Dissection Shark Tooth Lab	Pg 6 Pg 6 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7
3rd	Jan 5th - Feb 11th <u>Big Ideas:</u> Properties of Matter, Changes in Matter	What is matter?	SC.3.P.8.1-3 SC.3.P.9.1	Chemical Concoctions Nitromania	Pg 7 Pg 7
3rd	Feb 14th - Apr 1st <u>Big Ideas:</u> Forms of Energy, Energy Transfer and Transformation	What is energy?	SC.3P.10.1-4 SC.3.P.11.1 SC.3.P.11.2	Circuit Science Exciting Electrons	Pg 7 Pg 7
3rd	Apr 4th - May 6th <u>Big Ideas:</u> Earth in Space and Time, Earth Structures	What is outside the Earth?	SC.3.E.5.1-5 SC.3.E.6.1	Astronaut Solar System Odyssey Stars and Constellations	Pg 6 Pg 6 Pg 6
4th	Aug 16th - Sep 3rd <u>Big Ideas:</u> The Practice of Science	What do Scientists do?	SC.4.N.1.1-8 SC.4.N.2.1 SC.4.N.3.1	Bugs! A Rainforest Adventure Dinosaurs Alive Shark Tooth Lab Investigating Insects Pollinating Plants and Flower Dissection	Pg 6 Pg 6 Pg 7 Pg 7 Pg 7
4th	Sep 8th - Oct 22nd <u>Big Ideas:</u> Heredity and Reproduction, Interdependence	How do plants and animals reproduce and change? How do organisms interact with their environment?	SC.4.L.16.1-4 HE.4.C.1.5 SC.4.L.17.1-4	Bugs! A Rainforest Adventure Dinosaurs Alive Squid Dissection Everglades: All About the Alligator Investigating Insects Pollinating Plants and Flower Dissection Shark Tooth Lab DNA in Motion	Pg 6 Pg 6 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7

4 th	Oct 25th - Dec 8th <u>Big Ideas:</u> Properties of Matter, Changes in Matter	What are physical properties of matter?	SC.4.P.8.1-4 SC.4.P.9.1	Chemical Concoctions Nitromania	Pg 7 Pg 7
4 th	Dec 9th - Feb 11th <u>Big Ideas:</u> Forms of Energy, Energy Transfer and Transformation, Motion of Objects	What are some forms of energy? What is heat?	SC.4.P.10.1-4 SC.4.P.11.1-2 SC.4.P.12.1-2	Chemical Concoctions Circuit Science Newton Olympics Exciting Electrons Nitromania	Pg 7 Pg 7 Pg 7 Pg 7
4 th	Feb 14th - Mar 25th <u>Big Ideas:</u> Earth in Space and Time	How does earth rotate and revolve in space?	SC.4.E.5.1-5	Astronaut Solar System Odyssey Stars and Constellations	Pg 6 Pg 6 Pg 6
5 th	Aug 16th - Sep 3rd <u>Big Ideas:</u> The Practice of Science, The Characteristics of Scientific Knowledge	How can we use science to answer questions about the natural world?	SC.5.N.1-6 SC.5.N.2.1-2	Dinosaurs Alive Shark Tooth Lab Investigating Insects Everglades: All About the Alligator	Pg 6 Pg 7 Pg 7 Pg 7
5 th	Sep 8th - Oct 8th <u>Big Ideas:</u> Physical Science Properties in Matter, Changes in Matter	How can changes in matter be observed?	SC.5.P.8.1-4 SC.5.P.9.1	Chemical Concoctions Nitromania	Pg 7 Pg 7
5 th	Oct 11th - Dec 22nd <u>Big Ideas:</u> Forms of Energy, Energy Transfer and Transformation, Motion of Objects, Forces and Changes in Motion	What is energy and how does it work? What are forces and changes that affect the motion of an object?	SC.5.P.10.1-4 SC.5.P.11.1-2 SC.5.P.13.1-4	Circuit Science Exciting Electrons Newton Olympics	Pg 7 Pg 7 Pg 7
5 th	Jan 5th - Jan 28th <u>Big Ideas:</u> Earth in Space and Time	What are the components that make up our galaxy?	SC.5.E.5.1-3	Astronaut Solar System Odyssey Stars and Constellations	Pg 6 Pg 6 Pg 6
5 th	Feb 28th - Apr 29th <u>Big Ideas:</u> Organizations and Development of Living Organisms, Diversity and Evolution of Living Organisms, Life Science Organization and Development of Living Things	How do plants and animals reproduce and adapt to change over time? How do the organs and structures in animals and plants support life?	SC.5.L.17.1 SC.5.L.15.1	Bugs! A Rainforest Adventure Dinosaurs Alive Squid/Frog Dissection Everglades: All About the Alligator Investigating Insects Pollinating Plants and Flower Dissection Shark Tooth Lab Heart in Motion	Pg 6 Pg 6 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7 Pg 7

Grades 6 - 8

Grade	Recommended Pacing/Unit	Topics	Benchmarks	SFSCA Program	SFSCA Program Guide
6 th	Aug 11 th - Aug 31 st Unit 1: Nature of Science	Topic 1: Practice of Science Topic 2: Scientific Knowledge	SC.6.N.1.1-5 SC.6.N.2.1 SC.6.N.2.3	Astronaut Dinosaurs Alive Black Holes: The Other Side of Infinity Brain in Action Everglades: All About the Alligator Squid/Frog Dissections	Pg 8 Pg 8 Pg 8 Pg 9 Pg 9 Pg 9
6 th	Sep 1 st - Oct 14 th Unit 2: Energy, Force, and Motion	Topic 1: Energy Topic 2: Forces Topic 3: Motion	SC.6.P.11.1 SC.6.N.3.2 SC.6.P.13.1-3 SC.6.N.3.3 SC.6.P.12.1 SC.6.N.1.1	Black Holes: The Other Side of Infinity Exciting Electrons Newton Olympics	Pg 8 Pg 9 Pg 9
6 th	Nov 29 th - Dec 16 th Unit 4: Earth's Systems	Topic 2: The Atmosphere Topic 3: Energy Transfer and Atmospheric Circulation	SC.6.E.7.9 HE.6.C.1.3 SC.6.N.2.2 SC.6.E.7.1 SC.6.E.7.5	Astronaut Dynamic Earth	Pg 8 Pg 8
6 th	Jan 5 th - Feb 4 th Unit 5: Weather and Climate	Topic 1: The Water Cycle Topic 2: Weather Topic 3: Climate	SC.6.E.7.2-8	Dynamic Earth	Pg 8
6 th	Mar 22 nd - Apr 8 th Unit 7: Classification of Living Things	Topic 1: Diversity of Living Organisms	SC.6.L.15.1 SC.6.N.2.3	Dinosaurs Alive Squid/Frog Dissections Everglades: All About the Alligator Investigating Insects Pollinating Plants and Flower Dissection Shark Tooth Lab	Pg 8 Pg 9 Pg 9 Pg 9 Pg 9 Pg 9
6 th	Apr 11 th - May 13 th Unit 8: Human Body Systems	Topic 1: Human Body Systems	SC.6.L.14.5 SC.6.N.3.4	Astronaut Brain in Action Heart in Motion Squid/Frog Dissections	Pg 8 Pg 9 Pg 9 Pg 9
7 th	Aug 11 th - Aug 31 st Unit 1: Nature of Science	Topic 1: The Practice of Science	SC.7.N.1.1-6	Astronaut Dinosaurs Alive Black Holes: The Other Side of Infinity Brain in Action Everglades: All About the Alligator Squid/Frog Dissections	Pg 8 Pg 8 Pg 8 Pg 9 Pg 9 Pg 9
7 th	Sep 1 st - Sep 24 th Unit 2: Heat and Energy	Topic 1: Energy Topic 2: Heat	SC.7.P.11.1-4 SC.7.N.3.2	Dynamic Earth Exciting Electrons Nitromania	Pg 8 Pg 9 Pg 9
7 th	Sep 27 th - Oct 14 th Unit 3: Waves and Light	Topic 1: Waves Topic 2: Light	SC.7.P.10.1-3	Black Holes: The Other Side of Infinity	Pg 8
7 th	Jan 24 th - Feb 2 nd Unit 7: Reproduction and Heredity	Topic 1: Reproduction Topic 2: Heredity	SC.7.L.16.1-4	Squid/Frog Dissections Pollinating Plants and Flower Dissection DNA in Motion	Pg 9 Pg 9 Pg 9
7 th	Feb 18 th - Mar 11 th Unit 8: Change Over Time (Evolution)	Topic 1: Evidence of Evolution Topic 2: Natural Selection	SC.7.L.15.1-3	Dinosaurs Alive Squid/Frog Dissection Everglades: All About the Alligator Shark Tooth Lab	Pg 8 Pg 9 Pg 9 Pg 9

7th	Mar 22nd - Apr 14th Unit 9: Interdependence	Topic 1: Roles in Energy Transfer Topic 2: Interactions in Communities Topic 3: Limiting Factors	SC.7.L.17.1-3	Squid/Frog Dissections Everglades: All About the Alligator	Pg 9 Pg 9
8th	Aug 16th - Aug 31st Unit 1: Nature of Science	Topic 1: The Practice of Science Topic 2: The Characteristics of Scientific Knowledge	SC.8.N.1.1-6	Astronaut Dinosaurs Alive Black Holes: The Other Side of Infinity Brain in Action Everglades: All About the Alligator Squid/Frog Dissections	Pg 8 Pg 8 Pg 8 Pg 9 Pg 9 Pg 9
8th	Sep 1st - Oct 1st Unit 2: Structure and Properties of Matter	Topic 1: Properties of Matter Topic 2: States of Matter Topic 3: Atoms	SC.8.P.8.1-4, 7	Chemical Concoctions Nitromania	Pg 9 Pg 9
8th	Oct 4th - Oct 29th Unit 3: Changes in Matter	Topic 1: Pure Substances and Mixtures Topic 2: Physical and Chemical Changes	SC.8.P.8.5,8,9 SC.8.P.9.1-3	Chemical Concoctions Nitromania	Pg 9 Pg 9
8th	Nov 11th - Nov 19th Unit 4: Matter and Energy Transformations	Topic 1: Matter and energy Transformations	SC.8.L.18.1-2	Pollinating Plants and Flower Dissection	Pg 9
8th	Nov 29th - Dec 12th Unit 5: The Earth-Moon-Sun System	Topic 1: Days, Years, Seasons Topic 2: Moon Phases and Eclipses	SC.8.E.5.9	Astronaut Black Holes: The Other Side of Infinity Solar System Odyssey Stars and Constellations	Pg 8 Pg 8 Pg 8 Pg 8
8th	Jan 1st - Jan 26th Unit 6: The Solar System	Topic 1: Historical Models Topic 2: Gravity Topic 3: The Sun Topic 4: Objects in the Solar System	SC.8.E.5.4, 6-8	Astronaut Black Holes: The Other Side of Infinity Solar System Odyssey Stars and Constellations	Pg 8 Pg 8 Pg 8 Pg 8
8th	Jan 27th - Feb 15th Unit 7: The Universe	Topic 1: Stars and Galaxies Topic 2: Structure of the Universe	SC.8.E.5.1-3, 5	Astronaut Black Holes: The Other Side of Infinity Solar System Odyssey Stars and Constellations	Pg 8 Pg 8 Pg 8 Pg 8
8th	Feb 16th - Feb 25th Unit 8: Space Exploration	Topic 1: Methods of Exploration	SC.8.E.5.10-11	Astronaut Black Holes: The Other Side of Infinity Solar System Odyssey Stars and Constellations	Pg 8 Pg 8 Pg 8 Pg 8

Grades 9 - 12

While our curriculum is typically presented at elementary and middle school levels, we offer a variety of programs that can benefit our high school community. Most of our existing programs can be tailored to our 9-12 grade students upon request. Please see page 11 of our Education Guide for suggested high school programming.