



**MIAMI-DADE COUNTY PUBLIC SCHOOLS
DISTRICT PACING GUIDE
2023-2024 YEAR-AT-A-GLANCE**

Grade 5 **Course Code: 5020060 / Access Code: 7720060**

Big Ideas 1 and 2 should be **introduced during the first nine weeks, and then embedded in all science lessons** throughout the year as they blend easily with teaching inquiry and are the basis of an activity/lab-based science classroom. **The science skills taught in Big Ideas 1 and 2 will help prepare students in developing their science fair projects for the District Elementary Science Fair.**

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| <ul style="list-style-type: none"> • SC.5.N.1.1 Define a Problem, Do Research, Investigate, Defend Conclusions • SC.5.N.1.2 Compare use of Experiments and other Types of Investigations | <ul style="list-style-type: none"> • SC.5.N.1.3 Recognize and Explain the Need for Repeated Experimental Trials • SC.5.N.1.4 Identify a Control Group and Explain its Importance | <ul style="list-style-type: none"> • SC.5.N.1.5 Recognize that Steps of the Scientific Method can vary • SC.5.N.1.6 Understand the difference between personal interpretation and verified observations | <ul style="list-style-type: none"> • SC.5.N.2.1 Empirical Observations and Linked to Evidence • SC.5.N.2.2 Recognize that Evidence Produced should be Replicated |
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1 st Nine Weeks	2 nd Nine Weeks	3 rd Nine Weeks	4 th Nine Weeks
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Big Idea 1 Practice of Science
Big idea 2: The Characteristics of Scientific Knowledge
 Ia. Working Like a Scientist AA
[Science Fair Project Introduction](#)
 FL Elevate Science Nature of Science Handbook: How do Scientists Investigate? p.404-EM 9 (08/17 - 09/08) **16 days**

[NEW – Science Fair Project Introduction – Science Fair Timeline Begins](#)

Big Idea 5: Earth in Space and Time
 Ib. SC.5.E.5.3 Solar system AA
 SC.5.E.5.1 Our Galaxy AA
 SC.5.E.5.2 Planet Characteristics AA
Fair Game Benchmarks: District Resources and PPTs *SC.4.E.5.4 Movement in Space (SC.4.E.5.1; SC.4.E.5.2) AA (09/11 – 09/22) **10 days**

Big Idea 7: Earth Systems and Patterns
 II SC.5.E.7.1 Water Cycle AA SC.5.E.7.2 Water Cycle Processes AA (09/26 - 10/06) **9 days**

III a SC.5.E.7.3 Weather AA
 SC.5.E.7.4 Forms of Precipitation AA
 SC.5.E.7.5 Weather Conditions AA
 SC.5.E.7.6 Climate Zones AA (10/09 - 10/26) **14 days**

Environmental Awareness Protecting Our Planet
 Grade 5 Q1: [Water Pollution: The Dirty Details](#)

Big Idea 6: Earth Structures
District Resources and Power Point
 III b SC.4.E.6.2 Minerals and Rocks (Also assesses *SC.4.E.6.1) AA
 *SC.4.E.6.3 Earth's Resources (Also assesses *SC.4.E.6.6) AA
 *SC.4.E.6.4 Weathering/Erosion AA (10/30 – 11/09) **9 days**

Big Idea 8: Properties of Matter
Big Idea 9: Changes in Matter
 IV SC.5.P.8.1 Properties of Solids, Liquids and Gases. AA (11/13 – 11/17) **5 days**

SC.5.P.9.1 Physical and Chemical Changes AA
 SC.5.P.8.3 Mixtures of Solids can be separated AA
 SC.5.P.8.2 Materials that Dissolve in water AA (11/27 – 12/08) **10 days**

Big Idea 10: Forms of Energy
Big Idea 11: Energy Transfer
 V SC.5.P.10.1 Forms of Energy AA
 SC.5.P.10.2 Energy can cause motion or create Change AA (12/11 – 12/21) **9 days**

SC.5.P.10.4 Electrical energy can be transformed AA
 SC.5.P.10.3 Electrically charged objects AA
 SC.5.P.11.1 Flow of Electricity AA
 SC.5.P.11.2 Conductors and Insulators AA (01/08 – 01/18) **8 days**

Environmental Awareness Protecting Our Planet
 Grade 5 Q2: [Protecting Our Planet](#)

Big Idea 13: Forces and Changes in Motion
 VI SC.5.P.13.1 Forces AA
 SC.5.P.13.2 Changes in Motion AA
 SC.5.P.13.3 Forces that Move objects AA
 SC.5.P.13.4 Balanced and Unbalanced Forces AA (01/22 – 02/02) **10 days**

Big Idea 14: Organization & Dev. of Living Organisms
Big Idea 15: Diversity & Evolution of Living Organisms
Big Idea 16: Heredity and Reproduction
Big Idea 17: Interdependence
Fair Game Benchmarks District Resources and Power Point

VII SC.5.L.14.1 Human Body Organs AA
 *SC.3.L.14.1 Plant Structures and Functions (Also assesses SC.3.L.14.2; SC.4.L.16.1) AA
District Resources and PPTs (02/05 - 02/23) **14 days**

VIII a SC.5.L.14.2 Comparing Plant and Animal Organ functions (Assessed with Fair Game Benchmarks *SC.3. L.15.1; SC.3.L.15.2) AA (02/26 - 03/08) **10 days**

VIII b *SC.4.L.16.4 Life Cycles AA
 *SC.4.L.17.3 Food Chain AA (Also assesses *SC.4.L.17.2, SC.3.L.17.2)
District Resources and PPTs (03/11 – 03/21) **9 days**
 SC.5.L.17.1 Animal Adaptations AA (04/01-04/09) **7 days**
Environmental Awareness Protecting Our Planet
 Grade 5 Q3: [Everglades Ecosystem](#)

VIII c SC.5.L.17.1 Animal Adaptations AA
 SC.5.L.15.1 Environmental Changes AA (04/11 – 04/24) **10 days**

[NASA Climate Kids - Birds & Climate Change](#)
[Climate Change Activities – NASA Climate Kids](#)

Statewide Science Assessment
Crunch Time Review (04/25 – 05/03) **12 days**

Tentative date for Statewide Science Assessment: May 6-17, 2024

Environmental Awareness and Sustainability:
[Protecting Our Planet](#)
[The Education Fund – Food Forest](#) (05/13 - 05/17) **5 days**

SC.5.E.7.7- Natural Disaster Plans including Pet Care:
District Resources and Power Point (05/20 – 06/06) **13 days**

KTA Connection (Kindness to Animals)

***These Fair Game benchmarks are assessed on the Grade 5 Statewide Science Assessment.**

Environmental Awareness Protecting Our Planet
 Grade 5 Q4: [Human Impact on Earth's System and Global Warming](#)