



6th Grade Science 2025-2026

Instructor:	Sara Montgomery	Course Title:	6th Grade Science
E-mail:	smontgomery@pky.ufl.edu	Office Location:	2nd Floor Blue Fishbowl
Direct Phone:	(352) 392-1554	Course Meets:	A Day - Mondays & Thursdays B Day - Tuesday & Friday
Office Hours:	By Appointment		

Please review the information shared within the following links:

- [2025-2026 Code of Student Conduct](#)

Course Description

The main goals of this course are to develop the inquisitive abilities of every student so that they become capable scientific investigators. The curriculum provides for ample opportunities to acquire scientific knowledge by making connections with real-life experiences. The students will also engage in working like scientists do in the real world through several scientific practices: asking questions; creating and using models; analyzing and interpreting data; thinking; constructing explanations; and collaborating and communicating information. During the course of a year the students will explore different topics within the main branches of Science: Physical Science, Life Science, and Earth Science. This course is designed to satisfy Florida Next Generation Sunshine State Standards (FL NGSSS) which can be viewed at <http://www.cpalms.org/Courses/CourseDescriptionSearch.aspx>. It also satisfies the national science standards (NGSS) which can be viewed at <https://www.nextgenscience.org>.

Goals & Standards

This course is designed to satisfy Florida Next Generation Sunshine State Standards (FL NGSSS) which can be viewed at <https://www.cpalms.org/PreviewCourse/Preview/23155>. It also satisfies the national science standards (NGSS) which can be viewed at <https://www.nextgenscience.org>.

Scientific Practices	
Claim, Evidence Reasoning	I can construct a scientific claim that is accurate and answers the given question, provides evidence to support the claim, provides reasoning that links the evidence to the claim and includes appropriate scientific principles.
Communication	I can communicate in a way that is clear and coherent, and appropriate to task, purpose and audience.



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Information Literacy	I can ethically access and credit information, critically evaluate trustworthiness and relevancy, and use relevant information to answer questions.
Modeling	I can design and construct scientific models to represent, explain and predict scientific phenomena.
Analyzing Data	I can analyze and explain data, identify patterns in the data, and use the data to support a scientific claim.
Earth Science	
Earth Structures	I can describe the layers of the Earth and explain how the Earth changes due to natural processes (weathering, erosion, plate tectonics) along with human-influences (deforestation, desertification, urbanization) impact the surface of the Earth
Earth Systems and Patterns	I can explain how Earth's cycles (water, rock, carbon, etc.) represent interactions among Earth's spheres.
Physical Science	
Forms of Energy	I can describe various forms of energy (heat, light, sound, electrical, etc.).
Energy Transfer and Transformations	I can differentiate and provide examples for energy transfers and transformations (including heat flow, potential/kinetic energy, etc.).
Motion of Objects	I can use provided data of an object's position or speed over time to determine its motion (speed, velocity, or acceleration).
Force and Motion	I understand Newton's Laws of Motion and can describe different types of forces and predict an object's motion as a result.
Life Science	
Interdependence	I can analyze varied relationships within ecosystems resulting through food webs, symbiosis, and limiting factors.

Course Schedule

Unit	Time Frame	Summative Assessments	Required Texts/Media
Earth Science	11 weeks	Chapter Quizzes End-of-Unit Project	Digital Textbook (provided)
Physical Science	11 weeks	Chapter Quizzes End-of-Unit Project	Digital Textbook (provided)



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Life Science	11 weeks	Chapter Quizzes End-of-Unit Project	Digital Textbook (provided)
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Required course materials

- Texts and Media
 - Digital Textbook (provided)
- Materials
 - Provided by school
 - Composition Notebook
 - Chromebook & Charger
 - Student required to provide
 - Pencils/Pens
 - Headphones/Earbuds (NOT Bluetooth)

Procedures

- Homework
 - Homework will only be assigned if work is not completed in class, or if a student would like to work on an end-of-unit project at home (project work time will also be provided in class)
 - Although no specific assignment will be given, students will be expected to study for Chapter Quizzes at home
- WIN Wednesdays
 - This time is used to make up missing assignments, retake assessments, receive additional teacher support, and explore course topics more deeply

General Expectations

4Rs

- Responsible: Students must attend and be on time to class.
- Respectful: Students must show respect for each other and the classroom/school space.
- Resilient: Students are willing to take on challenges and use skills to overcome them.
- Ready: Students are prepared to work and learn every day.



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Late Work Policy

- Students may submit late assignments until one week after the conclusion of the unit. After that, all assignments for the unit will be locked.

Communication Protocols

Students can communicate with me outside of class by sending a Canvas Inbox message.

Families can communicate with me by emailing me at smontgomery@pky.ufl.edu

Electronic Device Policy

Students must come to class every day with their charged Chromebook. During class, the Chromebook should be used only to participate in the class. Students should not have personal electronic devices out during class at any time for any purpose, unless instructed to do so.

Kindergarten-8th Grade

Students may possess a wireless communication device on school property or while attending a school function, but they are not allowed to use it at any time during the school day from the start of the instructional day to the end of the instructional day.

9th-12th Grade

Students may possess a wireless communications device but may only use it outside of class time - or when a teacher gives explicit permission for instructional purposes. Devices must be stored in teacher-designated areas during instructional time.

PK will provide access to telephones for students who need to contact families during times when they are prohibited from using their personal device.

Grading Policy and Assessments

Grading

P.K. Yonge's Grading and Credit system is based on our shared beliefs about the purpose of assessment:

- Students should have a clear understanding and shared ownership of learning goals



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- Grades should communicate what students know and are able to do both within and across disciplines
- Students should have multiple opportunities to practice, receive feedback, and demonstrate their knowledge and skills
- It is critical for students to develop productive habits of work alongside content and skill development

Type	Examples	% of Grade
Habits of Work	End of Unit Check-Ins	5%
Formative	Exit Slips Classwork	20%
Summative	Chapter Quizzes Unit Projects	75%

The chart below outlines the relationship between numerical grades, letter grades, mastery-language, and credit within our mastery-based system.

Mastery-Language	Range (4-point grade system)	Meets Standard Course Credit Earned
Mastery (A)	3.51 - 4.0	GPA Point 4
Proficient (B)	3.01 - 3.5	GPA Point 3
Approaching (C)	2.51 - 3	GPA Point 2
Beginning (D)	2.01 - 2.5	GPA Point 1
Not Meeting (F)	.01 - 2.0	No Course Credit
No Evidence	0	No Course Credit



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Academic Dishonesty

It is expected that the work you submit in this and all of your courses is your own original work, or if not, contains full acknowledgment of borrowed sources. The following instances are academically dishonest:

- Copying and pasting from google or other sources without citing the source
- Copying and pasting responses from AI Chat Bots
- Copying another student's work and claiming it as your own

Any academic dishonesty will result in the *failure of that assignment as the minimum consequence*; other consequences range from failure of the course to academic probation to dismissal from P.K. Yonge.

ALL instances of academic dishonesty will be reported to the student's counselor, Behavior Coach, and Administration.