

Syllabus & Pacing Guide

1.) Syllabus and Pacing Guide

EARTH SCIENCE

COURSE DESCRIPTION

In this Earth Science course, students will explore the dynamic processes that shape our planet and its environment. The course covers key topics including geology, meteorology, oceanography, and astronomy, with a focus on the interactions between Earth's systems—geosphere, atmosphere, hydrosphere, and biosphere. Students will investigate the forces behind natural phenomena such as weather patterns, earthquakes, volcanic activity, and climate change. Through hands-on experiments, observations, and data analysis, students will develop critical thinking skills and an understanding of how human activity impacts the Earth's systems. This course also emphasizes the importance of scientific inquiry and the role of Earth science in addressing global challenges.

This course is the first semester of a 2-semester course (full-year)

COURSE SUBMISSIONS

All assignments will be graded through OnFire. Any attachments must be made in a Word document file, PDF, or Google Doc shareable link and turned in through OnFire.

REQUIRED TEXTS

None - All readings will be provided on OnFire.

GRADING BREAKDOWN

A 94-100%	C 73-76%
A- 90-93%	C- 70-72%
B+ 87-89%	D+ 67-69%
B 83-87%	D 63-66%
B- 80-82%	D- 59-63%
C+ 77-79%	F 58% or below

GRADED WEIGHT OF SCHOOLWORK

- It is important to note that you will receive unlimited attempts on all assignments and quizzes until you demonstrate mastery of the content. All quizzes will be randomized and not show the correct answer, making reading the lesson material important BEFORE taking the quiz and completing the assignments.
- You will receive two attempts on the tests and one attempt the post-assessments. They will also be timed.
- **Assignments: 30%**

- **Quizzes: 30%**
- **Tests and Post-Assessments: 40%**

INSTRUCTOR EXPECTATIONS AND PACING

A typical semester course at a traditional high school requires 80 hours in total, which is 40 hours per term. Since this is a self-paced course, completing it may take you longer or shorter. You are expected to spend 3-5 hours each week and submit at least one unit each.

Students can complete the course at a pace that best suits them. You are responsible for completing and turning in all assignments according to their individual needs. However, make sure to look at your school's deadlines, to ensure that you are completing courses on track.

Parents/Guardians can observe and view their student's progress through OnFire.

It would be best if you put the assignments in your calendar at the beginning of the semester so you know which work to complete each week.

Week 1	<p>Unit 1: Welcome!</p> <ul style="list-style-type: none"> • Make sure to read the syllabus. • If you choose to complete the Competency Exam, please complete it this week. If you decide not to, skip this. <p>Unit: The Solar System</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Earth Science ◦ Quiz: Big Bang Theory
Week 2	<p>Unit: The Solar System</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Stars ◦ Quiz: The Star in You ◦ Assignment: The Star in You
Week 3	<p>Unit: The Solar System</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: The Solar System ◦ Unit Test: The Solar System
Week 4	<p>Unit: Earth</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: The Revolution of Science ◦ Quiz: The Scientific Method ◦ Quiz: Life on Earth

Week 5	<p>Unit: Earth</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Structure of the Earth ◦ Unit Test: Earth
Week 6	<p>Unit: Plate Tectonics</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Continental Drift Theory ◦ Quiz: Oceanic Ridges and Ocean Life ◦ Quiz: Plate Tectonic Movements
Week 7	<p>Unit: Plate Tectonics</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Earthquakes and Volcanoes ◦ Assignment: Earthquakes ◦ Quiz: Geological Processes
Week 8	<p>Unit: Plate Tectonics</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Unit Test: Plate Tectonics • Post-Assessment Term 1 <p>Please complete the Term 2 Pre-Assessment here if you wish to do so.</p>
Week 9	<p>Unit 8: Weather</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Elements of Weather ◦ Quiz: Severe Weather
Week 10	<p>Unit 8: Weather</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Low and High-Pressure Systems ◦ Quiz: Air Masses and Weather Fronts
Week 11	<p>Unit 8: Weather</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Assignment: Weather Map ◦ Unit Test: Weather
Week 12	<p>Unit 9: Climate Change</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Weather and Climate ◦ Quiz: A Changing Climate
Week 13	<p>Unit 9: Climate Change</p> <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Assignment: Carbon Cycle and Fossil Fuels ◦ Quiz: Carbon Cycle

Week 14	Unit 9: Climate Change <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quiz: Consequences of Climate Change ◦ Unit Test: Climate Change
Week 15	Unit 9: Climate Change <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Unit Test: Climate Change
Week 16	Unit 10: Term 2 Post-Assessment <ul style="list-style-type: none"> • Submit the following: <ul style="list-style-type: none"> ◦ Quarter 2 Post-Assessment ◦ Course Evaluation <p>Congrats! You finished Semester 1 of Earth Science!</p>

ONLINE TECHNOLOGIES

This course takes place online. Since we will not meet face-to-face, you must have the necessary technology and technical know-how to work effectively in this online learning environment. This online course will utilize OnFire as the learning management system. Please get in touch with your instructor if you have trouble logging in or viewing any of the documents and links posted.

2.) Course Requirements

Course Materials

All courses require you to have access to a working computer and to the Internet.

All course work will be completed and graded through a digital learning management system known as Onfire.

Course Requirements

Students are required to do all testing on a computer.

All assignments will be graded through Onfire. Any attachments must be made in a Word or PDF document file and turned in through Onfire.

3.) Vocabulary

Vocabulary for the course you should know can be found in the course.

4.) Core Standards

Please find the Earth Science core standards in the course.