

Syllabus & Pacing

1.) Syllabus

COURSE DESCRIPTION

Astronomy is one of the oldest sciences and is the study of celestial bodies such as stars, planets, comets, and galaxies. Ancient Greeks used the positions of the stars to navigate and to decide when to plant crops. Within each unit, there are a number of lessons. Quizzes are designed to assess your understanding of an individual lesson. Tests and research projects are designed to assess your understanding of the unit as a whole. There are two lab activities, which use classroom-safe materials. The goal of lab activities in this course is to collect and interpret data to further your understanding of the concepts.

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 or directly to the instructor.

REQUIRED MATERIALS

None - All readings will be provided on OnFire.

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

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

Required Supplies: Paper, Cardboard, Scissors, Tape, Alummium Foil

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.

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.) Grade Breakdown

Grading Procedures

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

Grade Weight Groups:

- Quizzes: 40%
- Post-Assessment: 15%
- Tests: 15%
- Lab and Research: 30%

Parents/Guardians will be able to observe and view their student's progress through Onfire.

3.) Pacing Guide

Tentative Course Schedule

Term 1

Week 1	Unit: Introduction <input type="checkbox"/> Safety Contract <input type="checkbox"/> Lesson and QUIZ: Processes of Science <input type="checkbox"/> Lesson and QUIZ: Scientific Theory
Week 2	Unit: Introduction <input type="checkbox"/> Lesson and QUIZ: Graphing <input type="checkbox"/> Lesson and Quiz: S.I. Units
Week 3	Unit: Introduction <input type="checkbox"/> Lesson and Quiz: Scientific Notation <input type="checkbox"/> Lab: Nature of Science <input type="checkbox"/> Unit Test: Introduction
Week 4	Unit: Introduction to Astronomy <input type="checkbox"/> Lesson and QUIZ: Introduction to Astronomy <input type="checkbox"/> Lesson and QUIZ: Gravity <input type="checkbox"/> Lesson and Quiz: History of Astronomy

Week 5	Unit: Galaxies <input type="checkbox"/> Lesson and Quiz: Space <input type="checkbox"/> Unit Test: Introduction to Astronomy
Week 6	Unit: Galaxies <input type="checkbox"/> Lesson and QUIZ: Introduction to Galaxies <input type="checkbox"/> Lesson and QUIZ: Clusters <input type="checkbox"/> Lesson and Quiz: Our Galaxy
Week 7	Unit: Galaxies <input type="checkbox"/> Research: Galaxy Report <input type="checkbox"/> Unit Test: Galaxies
Week 8	Unit: Galaxies <input type="checkbox"/> Term 1 Post-Assessment and Grade Submission

Term 2

Week 1	Unit: Our System <input type="checkbox"/> Lesson and QUIZ: Mercury <input type="checkbox"/> Lesson and QUIZ: Venus <input type="checkbox"/> Lesson and QUIZ: Earth
Week 2	Unit: Our System <input type="checkbox"/> Lesson and QUIZ: Mars <input type="checkbox"/> Lesson and QUIZ: Jupiter <input type="checkbox"/> Lesson and QUIZ: Saturn
Week 3	Unit: Our System <input type="checkbox"/> Lesson and Quiz: Uranus <input type="checkbox"/> Lesson and Quiz: Neptune <input type="checkbox"/> Lesson and Quiz: Pluto
Week 4	Unit: Our System <input type="checkbox"/> Unit Test: Our System Unit: Introduction to Systems <input type="checkbox"/> Lesson and Quiz: Introduction to Systems <input type="checkbox"/> Lesson and Quiz: Properties

<p>Week 5</p>	<p>Unit: Introduction to Systems</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson and Quiz: Heliosphere <input type="checkbox"/> Lesson and Quiz: Asteroids and Belts <input type="checkbox"/> Lesson and Quiz: Comets
<p>Week 6</p>	<p>Unit: Introduction to Systems</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unit Test: Systems <p>Unit: Stars</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson and Quiz: Introduction to Stars <input type="checkbox"/> Lesson and Quiz: Studying Stars
<p>Week 7</p>	<p>Unit: Stars</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson and Quiz: Life Cycle <input type="checkbox"/> Lesson and Quiz: Black Holes <input type="checkbox"/> Pin Hole Lab
<p>Week 8</p>	<p>Unit: Stars</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unit Test: Stars <input type="checkbox"/> Term 2 Post-Assessment and Grade Submission