

Astronomy Syllabus

Welcome to Astronomy! Astronomy is the scientific study of everything in space. We'll spend some time exploring the universe together and trying to figure out what is going on up there and down here. We will learn about stars, planets and how the universe began...even the nature of reality itself. Understanding how things work drives science and enlightens all of us.

Course Expectations:

Note taking: Each period you are expected to take notes on our class activities. I will provide all powerpoints to you, so notes should be a way to clarify points discussed, not a repetition of what is already given.

Technology: We will use Google Classroom, Google Slides and Pear Deck for most lectures. When you enter the classroom, please get a computer from the bin, or use the one already set up. I recommend using the alcohol dispenser before and after entering class. We will use Google Forms for most assignments and quizzes. The Google Classroom code is listed below. Should we need to use Google Meet, the code is listed on your Google Classroom page.

Attendance: Attendance is mandatory and important. You will have difficulty with the course if you miss class. Please provide a note if you are absent.

Textbook: We will use an online textbook, [OpenStax Astronomy](https://openstax.org/courses/12801/astronomy), at OpenStax.org. You may download this as a .pdf or bookmark the website in your browser.

Office Hours: In Room 245 Tuesday and Wednesday 7:50 am to 8:15 am, or by appointment. Of course, my door is open and if you need to speak with me, please email me or track me down in school. Please use this time for any tutoring help or questions you may have.

Email: mfreedman3@qirtnyc.org (Mr. Freedman)

Course Sequence:

| |
|--|
| Introduction - History |
| Fundamentals - Basics |
| The Universe - The Big Bang, Cosmology |

| |
|-------------------------------------|
| Stars - The Sun |
| Galaxies |
| Planets |
| Space Travel - Rockets, Time Travel |
| Life: ETs, Habitability |

Grading:

| | |
|--|-----|
| Assessments (exams, quizzes) | 30% |
| Projects (research, projects, FRQs) | 30% |
| Classwork (assignments) | 30% |
| Participation (attendance, engagement) | 10% |

Software: This year we will be using several online resources, some of which will require you to set up an account (see below). All accounts will be free. You should already have access to PupilPath (your grades will be there). Please let me know if you have difficulty opening any program or account.

Google Classroom (Codes Below)

| Astronomy | Google Classroom Code |
|------------------|------------------------------|
| | |

Some other websites and programs we will use throughout the year.

Earthphile.com This site has many resources and all the powerpoints

Pear Deck

Google Suite (Docs, Slides, Forms)