

## Mr. Hyatt – Astronomy 2022-2023

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Welcome to Astronomy for the 2022-2023 school year. I am looking forward to sharing the next 10 months with you learning about and exploring space. Here are a few things to keep in mind for this year:



### Grading:

Grades will consist of:

- **Practice**
  - Homework
    - If you turn work in late, you will receive only partial credit.
  - Classwork
    - This includes paying attention and being an active participant in class activities.
- **Formative Assessments**
  - Labs
  - Projects
  - BellWork
    - At beginning of each class, you will have bell work. Graded every 2 weeks.
  - Quizzes
- **Summative Assessments**
  - Tests

I will use the following basic grading scale set up by the Orange County Public School system.

100-90 = A

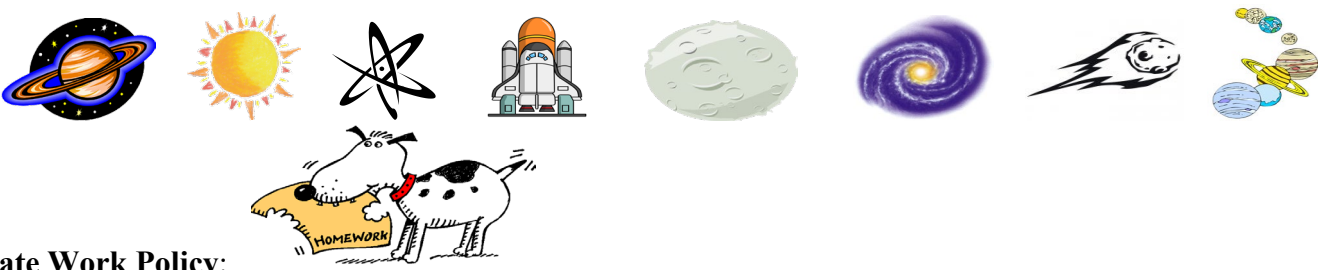
89-80 = B

79-70 = C

69-60 = D

59 and below = F





**Late Work Policy:**

I believe it is important for students to develop good work habits, including turning in work on time...so you may turn in any assignment late, but please keep in mind that points will be given accordingly. 10% off for each day late down to a 40 percent. Five days after it is due, I will close the assignment and it will not be available anymore.



**Science Journal:**

Your **composition notebook** will be your science journal. I will be checking them periodically for a grade. Keeping them and keeping them in good shape will be a large portion of your classroom participation grade. **PLEASE DON'T LOSE THIS!**



**Cheating:**

If I catch you cheating, you have an automatic 0%. If you are cheating with another person, they will have a 0% as well. There are no acceptable excuses. Cheating involves: copying from another student, copying from the internet, copying or plagiarizing from anything really.

**Classroom Routines**

- **NO CELL PHONES!** (Unless I say so), They are just not allowed. **Headphones need to be put away, not simply put around your neck or behind your ears.** A dean will be contacted and a call home will follow. You already know this rule!
- **No food, gum, candy, or drinks in class.** Except for **WATER.** Drink Lots of Water! **(I HATE BUGS!)**
- You must be in my class when the bell rings or you are considered tardy. The only exception is a signed pass from another teacher. The door will be closed and locked when the bell rings.
- If you need to use the restroom or get a drink of water, just let me know and I will **”usually”** let you go – **BUT NOT ALWAYS.** You cannot however go during the first or last 10 minutes of class. Only one person is permitted to use the restroom at a time.
- Since this is a Science class and there may be animals in class. Snakes in particular. For their safety and yours, please do not touch them unless I specifically tell you that you can.
- Please respect everybody and everything. If you don't understand this, please see me.





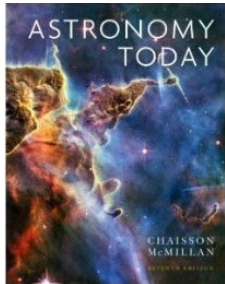
**Science Class Required Materials Each Day:**

- Pen/Pencil
- Composition Notebook (Interactive Science Journal)
- Your Laptop
- Headphones THAT CAN BE USED WITH YOUR COMPUTER



**Online Stuff:** [MrHyatt.rocks](http://MrHyatt.rocks)

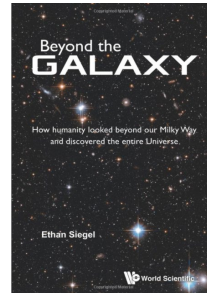
- A lot of assignments are on there. As well as PowerPoints, Videos, Worksheets, Readings, Textbook, Links, Pictures, Tutorials, Etc.
- Canvas: Online assignments will be turned in here. Bellwork is here too!
- Our books are:



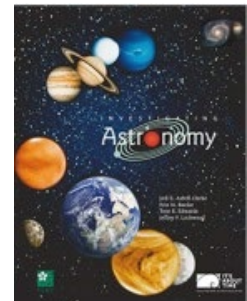
**Astronomy: A  
Beginner's Guide to the  
Universe by Eric  
Chaisson  
(online)**



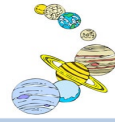
**OpenStax: Astronomy  
(online)**



**Beyond the Galaxy:  
How humanity looked  
beyond our Milky Way  
and discovered the  
entire Universe**



**Investigating  
Astronomy**



First 9 Weeks	Second 9 Weeks	Third 9 Weeks	Fourth 9 Weeks
<p><b>Establishing Classroom Routines</b></p> <p><b>The Practice of Astronomy</b> (Approximately 5 days)</p> <p>Lab Rules, Procedures, and Safety SC.912.N.1.1 - Solving Scientific Problems</p> <p><b>The Sky</b> (Approximately 15 days)</p> <p>SC.912.E.5.10 - Locating Celestial Objects with a Coordinate System SC.912.E.5.11 - Astronomical Distances</p> <p><b>Sun, Earth, Moon</b> (Approximately 15 days)</p> <p>SC.912.E.5.2 - Organization and Forces Effecting Matter SC.912.E.5.4 - Solar Properties and Conditions SC.912.E.7.7 - Global Climate Change SC.912.P.10.4 - Heat</p> <p><b>Exploring the Universe</b> (Approximately 10 days)</p> <p>SC.912.E.5.7 - History of Space</p>	<p><b>The Planets</b> (Approximately 15 days)</p> <p>SC.912.E.5.2 - Organization and Forces Effecting Matter SC.912.E.5.11 - Astronomical Distances SC.912.E.6.2 - Surface Features and Processes SC.912.E.7.7 - Global Climate Change SC.912.P.8.1 - States of Matter</p> <p><b>Planetary Movement</b> (Approximately 15 days)</p> <p>SC.912.E.5.5 - Formation of Planetary Systems SC.912.E.5.6 - Kepler's Laws SC.912.P.12.2 - Position, Velocity, and Acceleration SC.912.P.12.3 - Newton's Three Laws of Motion SC.912.P.12.4 - Gravitational Force Between Two Objects SC.912.P.12.6 - Angular Momentum</p> <p><b>History of Sky Observation</b> (Approximately 15 days)</p> <p>SC.912.E.5.7 - History of Space Exploration and Technological Development</p>	<p><b>Telescopy</b> (Approximately 15 days)</p> <p>SC.912.P.10.20 - Properties of Waves SC.912.P.10.22 - Images Location and Properties</p> <p><b>Spectroscopy</b> (Approximately 15 days)</p> <p>SC.912.P.8.4 - Atomic Theory and Atomic Structure SC.912.P.10.9 - Atomic Level Energy SC.912.P.10.19 - Objects Emit and Absorb Electromagnetic Radiation SC.912.P.10.21 - Doppler Effect</p> <p><b>The Stars</b> (Approximately 15 days)</p> <p>SC.912.E.5.2 - Organization and Forces Effecting Matter SC.912.E.5.3 - Stellar Evolution SC.912.P.8.1 - States of Matter SC.912.P.10.11 - Nuclear Reactions SC.912.P.10.19 - Objects Emit and Absorb Electromagnetic Radiation SC.912.P.12.4 - Gravitational Force Between Two Objects</p>	<p><b>Celestial Objects</b> (Approximately 23 days)</p> <p>SC.912.E.5.3 - Stellar Evolution SC.912.E.5.11 - Astronomical Distances SC.912.P.10.4 - Heat SC.912.P.10.10 - Four Fundamental Forces SC.912.P.12.6 - Angular Momentum</p> <p><b>Cosmology</b> (Approximately 22 days)</p> <p>SC.912.E.5.1 - Big Bang SC.912.E.5.2 - Organization and Forces Effecting Matter SC.912.P.10.21 - Doppler Effect SC.912.P.12.2 - Position, Velocity, and Acceleration SC.912.P.12.4 - Gravitational Force Between Two Objects SC.912.P.12.7 - Speed of Light SC.912.P.12.8 - Special Theory of Relativity SC.912.P.12.9 - Frame of Reference</p> <p><b>End-of-Course Assessment</b> 2015-16 Testing Window TBA</p>