Astronomy

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2023-2024

 Mrs. Billman

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Class Description

This class will be a challenging combination of work and activities to dive into the state of standards as well as real world scenarios to gain a better understanding of the world around us and the impact we can have on it.

There is a lot of learning to do this year, so please come to class ready to get work done!

What will the class look like?

Throughout this year, we will use a variety of resources such as worksheets, projects, group work, tests, quizzes, Kahoot, etc.

The midterm and the final are open to being a traditional style exam or a project that encompasses what we have learned.

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| Course Sequence |
| First 9 Weeks (August 17-October 18) | Unit 1: Observational Astronomy* History of Astronomy
* Scientists
* Light and Telescopes
* The Night Sky
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| Second 9 Weeks (October 23-December 14) | Unit 2: Earth, Moon, and Sun* Earth and Moon’s Movement
* Seasonal Patterns
* Gravity in Space
* Moon Phases
* Eclipses
* Moon causes Tide

Unit 3: The Solar System* The Solar System and Earth
* Terrestrial Planets
* Jovian Planets
* Beyond Planets
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| Third 9 Weeks (January 2-March 6) | Unit 4: Stars * Characteristics of Stars
* Life Cycle of Stars
* Stars Systems
* Low Mass Stars
* High Mass Stars
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| Fourth 9 Weeks (March 11-May 22) | Unit 5: Galaxies and the Universe* Galaxies
* Big Bang Theory

Unit 5: Cosmology and Spaceflight* Cosmology
* Rocketry
* Human Spaceflight
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Grading Information

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| A | 90-100 |
| B | 80-89 |
| C | 70-79 |
| D | 60-69 |
| F | 0-59 |

You will receive grades in the following areas:

* Participation
* Class Work
* Tests/Quizzes
* Labs
* Projects

After work is later or missing for more than 1 week, it will become a zero.

Class Expectations

* Come to class with all your materials ready – pencil/pen, paper, charged iPad
* Participate in class
* Take pride in your work and do your best

Make-up and Missed Work

It is your responsibility to make up and missed work not exceeding one day more than the period of absence, i.e. you are absent 2 days – you get 2 days plus an additional day to complete the missed work and get it turned in. You are responsible for asking or emailing me to get your work.