ASTRONOMY

Mr. Vestal

Students will be introduced to the concepts and principles which make up the science of astronomy. Labs and reports will also be a part of the class. Astronomy is a semester course so time is limited. Topics of study will be taken from the following...

- History of Astronomy
- Methods of Astronomy
- The Earth
- The Moon and Eclipses
- The Terrestrial Planets (Mercury, Venus, Earth, Mars)
- The Jovian Planets and Pluto (Jupiter, Saturn, Uranus, Neptune, Pluto)
- Asteroids, Comets, and Meteors
- The Sun
- Stars in General
- Multiple Star Systems
- Variable Stars
- The Interstellar Medium
- The Birth and Lifetime of Stars
- The Death of Stars
- The Milky Way Galaxy
- The Realm of Galaxies
- Cosmology
- Extraterrestrial Life

Classroom Rules and Procedures

In order for effective learning to take place in the classroom it is important that each individual agrees to follow a few rules. These rules need to be established so that the entire year will flow smoothly for everyone.

- 1) Bring textbooks, notebooks, homework, and pencils to each and every class.
- 2) Be on time and in your seats when the bell rings.
- 3) Raise your hand and wait to be recognized before speaking. Only one person talks at a time.
- 4) Follow directions the first time.
- 5) Have respect for those around you.

When classroom rules are broken consequences will be issued. Consequences are cumulative and will be given in a quick and concise manner. In situations of severe behavior, the most severe consequence will be given out immediately.

1st offense - warning

2nd offense - one minute after class

3rd offense - one night detention

4th offense - two nights detention .

5th offense - removal from class

	Succeeding a succeeding of the
Class	Topic
1	Introduction/course outline/books
2	Chapter 1 - Charting the Heavens - Foundations of Astronomy
3	Chapter 1 - Charting the Heavens - Foundations of Astronomy
4	Chapter 2 - The Copernican Revolution - The Birth of Modern Science (video)
5	Chapter 2 - The Copernican Revolution - The Birth of Modern Science (video)
6	Chapter 2 - The Copernican Revolution
7	Egg Drop Competition
8	Review
9	Test - Chapters 1 and 2
10	Chapter 3 - Radiation - Information from the Cosmos
11	Chapter 3 - Radiation - Information from the Cosmos
12	Chapter 5 - Talescopes The Tale of Astronomy
13	Chapter 5 - Telescopes - The Tools of Astronomy
	Chapter 5 - Telescopes - The Tools of Astronomy
14	Chapter 6 - The Solar System
15	Chapter 6 - The Solar System
16	Video - The History of Spaceflight
17	Video - The History of Spaceflight
18	Review
19	Test = Chapters 3, 5 and 6 = Radiation/Telescopes/The Solar System
20	Chapter 7 - Earth - Our Home in Space
21	Chapter 7 = Earth - Our Home in Space
22	Latitude/Longitude Lab
23	Video - The Blue Planet
24	Test - Chapter 7 - Earth
25	Chapter 8 - The Moon and Mercury : Scorched and Battered Worlds
26	Chapter 8 - The Moon and Mercury: Scorched and Battered Worlds
27	Moon Phases/Tides/Eclipses
28	Lab: Moon Phases/Tides/Eclipses
29	Lab Quiz - Moon Phases/Tides/Eclipses
30	Video - The Moon and Beyond
31	Computer Slide Show/Review/Down on the Moon Lab
32	Test - Chapter 8 - The Moon and Mercury
33	Chapter 9 - Venus
34	Chapter 10 - Mars
35	Lab - The Orbit of Mars
36	Lab - The Orbit of Mars
37	Videodisc - The Planets (part 1)
38	Review
39	Test - Chapter 9 and 10 - Venus and Mars
40	Chapter 11 - Jupiter
41	Chapter 12 - Saturn
42	Chapter 13 - Uranus, Neptune, and Pluto
43	Videodisc - The Planets (part 2)
44	Review
45	Test - Chapter 11,12, and 13 - Jupiter, Saturn, Uranus, Neptune, and Pluto

Test - Chapter 11,12, and 13 - Jupiter, Saturn, Uranus, Neptune, and Pluto

Class Topic Library - Research Reports 46 Library - Research Reports 47 Locating Planets - Planospheres 48 Locating Planets - Planospheres 49 Rockets 50 Rockets 51 Rocket Launch 52 Chapter 14 - Solar System Debris 53 Chapter 14 - Solar System Debris 54 Video - Haley's Comet 55 Chapter 15 - The Formation of the Solar System 56 Review 57 Test - Chapter 14 and 15 - Solar System Debris and The Formation of the Solar System 58 pp. 376 - 377 Self-Tests Chapter 16 - The Sun 59 Lab - Sunspots 60 Chapter 17 - Measuring the Stars - Giants, Dwarfs, and the Main Sequence 61 Chapter 17 - Measuring the Stars 62 Chapter 18 - The Interstellar Medium - Gas and Dust Among the Stars 63 Chapter 19 - Star Formation - A Traumatic Birth 64 Chapter 19 - Star Formation - A Traumatic Birth 65 Chapter 20 - Stellar Evolution - From Middle Age to Death 66 Review 67 Test - Chapters 17, 18, 19, 20 - Stars 68 Chapter 21 - Stellar Explosions 69 Chapter 22 - Neutron Stars and Black Holes 70 Sidereal Time 71 Constellation Packets 72 Winter Sky 73 Winter Sky - Review 74 Winter Sky - Quiz 75 Spring Sky 76 Spring Sky - Review 77 Spring Sky - Quiz 78 Summer Sky 79 Summer Sky - Review 80 Summer Sky - Quiz 81 Fall Sky 82 Fall Sky - Review 83 Fall Sky - Quiz 84 Make Up Quiz for all seasons 85 Field Trip - Carnegie Science Center 86 Constellation Review 87 Sky Final Exam 88 Review for Final Exam 89 Review for Final Exam 90