



Present

The Really Big World of Astronomy (Part 1)

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I. Introduction

- A. What Is Astronomy?
- B. The Celestial Sphere
- C. Other Stuff You Need To Know

II. The History Of Astronomy

- A. Beginnings Of Astronomy
- B. The Copernican Revolution
- C. Kepler's Laws
- D. Galileo
- E. Newton

III. Gravity

- A. Universal Law Of Gravitation
- B. Other Applications Of Gravity

IV. Light And The Spectrum

- A. The Basics
- B. Planck's Law
- C. Properties Of Light

- D. Wein's Law
- E. Stefan's Law
- F. Kirchhoff's Laws
- G. The Doppler Effect

V. Telescopes

VI. The Earth

- A. Earth's Interior
- B. The Atmosphere
- C. The Turning Earth
- D. Other Things To Know
About The Earth

VII. The Moon

- A. Origins Of The Moon
- B. Surface Features Of The Moon
- C. Phases And Rotation
Of The Moon
- D. Tides

Other titles available from *The Standard Deviants*:

Algebra *Part 1*
Algebra *Part 2*
Microeconomics
Macroeconomics
Statistics *Part 1*
Statistics *Part 2*
Statistics *Part 3*
Calculus *Part 1*
Calculus *Part 2*
Physics
Biology
Pre-Calculus *Part 1*
Pre-Calculus *Part 2*
Chemistry *Part 1*
Chemistry *Part 2*
Chemistry *Part 3*
Psychology
Finance *Part 1*
Finance *Part 2*
Finance *Part 3*
Accounting *Part 1*
Accounting *Part 2*
Geology *Part 1*

Geology *Part 2*
Basic Math
Trigonometry *Part 1*
Trigonometry *Part 2*
Organic Chemistry *Part 1*
Organic Chemistry *Part 2*
Organic Chemistry *Part 3*
Astronomy *Part 1*
Astronomy *Part 2*
Anatomy *Part 1*
Anatomy *Part 2*
Business Law
English Composition
Spanish *Part 1*
Spanish *Part 2*
Marketing
Differential Equations
Sociology *Part 1*
Sociology *Part 2*
Physics *Part 1*
Physics *Part 2*
Nutrition
French *Part 1*

French *Part 2*
Geometry
Pre-Algebra

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Healthy Cooking
Entertaining at Home

PART 1 Formulas:

| Object | Semi-Major Axis of Orbit (AU) | Orbital Period (Earth Years) | Mass (Earth masses) | Radius (Earth radii) | Average Density (g/cm ³) | Escape Velocity (km/s) | Number of Moons (known) |
|---------------|-------------------------------------|---------------------------------|------------------------|-------------------------|--|------------------------------|-------------------------------|
| Sol (the Sun) | — | — | 332,000 | 109 | 1.4 | 617 | — |
| Mercury | 0.39 | 0.24 | 0.055 | 0.38 | 5.4 | 4.3 | 0 |
| Venus | 0.72 | 0.62 | 0.81 | 0.95 | 5.2 | 10.4 | 0 |
| Earth | 1.0 | 1.0 | 1.0 | 1.0 | 5.5 | 11.2 | 1 |
| Mars | 1.5 | 1.9 | 0.11 | 0.53 | 3.9 | 5.0 | 2 |
| Jupiter | 5.2 | 11.9 | 318 | 11.2 | 1.3 | 60 | 16 |
| Saturn | 9.5 | 29.5 | 95 | 9.5 | 0.7 | 36 | 20 |
| Uranus | 19.2 | 84 | 15 | 4.0 | 1.2 | 21 | 15 |
| Neptune | 30.1 | 165 | 17 | 3.9 | 1.7 | 24 | 8 |
| Pluto | 39.5 | 249 | 0.003 | 0.2 | 2.0 | 1.3 | 1 |
