

# Astronomy Science Olympiad Master Full Guide Updated 2024-2025 Guaranteed Success

Optical double - not actually binaries

simply two stars lying along same line of sight (similar RA & dec)

Not gravitationally bound

Not useful in determining stellar masses

Visual binary - both stars resolved independently

if orbital pd not too long, can monitor motion

provides angular separation from center of mass

If dist known, linear separations can be calculated

Astrometric binary - if one significantly brighter, not possible to see both directly

Existence deduced by observing oscillatory motion of visible member

Spectrum binary - two superimposed independent discernible spectra

Doppler effect causes shifting of spectral lines

Spectroscopic binary - if period not too long

Orbital motion has component along line of sight

Periodic shift in spectral lines observable

Only 1 set of periodically varying spectral lines seen

Systems able to provide us with mass determination - Visual binaries combined with parallax info

Visual binaries with radial velocities available over complete orbit

Eclipsing double-line spectroscopic binaries

O stars - Hottest blue-white stars with few lines

# Study Guide For Astronomy Science Olympiad 2015

**Victor M. Corman**



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*Fundamentals of Astronomy* Flavio Salvati, 2020-09-22 This book covers the fundamentals of astronomy such as coordinate systems transformation of coordinates measurement of time telescopes the black body flux and magnitude the cosmic distance ladder celestial mechanics and Kepler s laws the motion of planets and transfer orbits Each chapter contains many exercises and problems to help the readers familiarise themselves with the contents Part of the questions were selected from more than 10 different National Astronomy Olympiads the International Olympiad on Astronomy and Astrophysics IOAA and the International Astronomy Olympiad IAO At the end of the book there are detailed solutions to all the exercises and problems The only prerequisite is a basic knowledge of high school mathematics and physics Slightly more advanced mathematical tools are covered in the appendix making the book self contained This book is specifically aimed at students preparing for the regional and national phases of the Astronomy Olympiads but will also represent a valuable resource for those selected to represent their countries at international competitions For more information visit the website [www.astrolympiad.com](http://www.astrolympiad.com) *Astronomy* John L. Safko, 1994-01-01 **Astronomy Study Guide** Robert H. Gowdy, 2021-07-30

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