

# 2020-21 Academic Pentathlon Science Resource Guide Outline

Section I. Foundations of Astronomy.....18%

- A. The History of Modern Astronomy
- B. Light
- C. Thermal Radiation
- D. Telescopes

Section II. The Stars.....20%

- A. Distances to Stars
- B. Stellar Spectra
- C. The Sun
- D. Stellar Evolution
- E. Supernovae, Superdense Stars, and Black Holes

Section III. The Planets.....31%

- A. The Solar System
- B. The Space Race: The Early Apollo Missions
- C. The Space Race: The Apollo 11 Moon Landing
- D. The Terrestrial Planets
- E. The Jovian Planets and Beyond

Section IV. The Galaxies and the Universe.....31%

- A. The Milky Way Galaxy
- B. The Space Race: Skylab
- C. Other Galaxies
- D. The Universe