

2024-25 Academic Pentathlon Science Resource Guide Outline

Section I. Foundations of Environmental Science.....22%

- A. What Is Environmental Science?
- B. Environmental Indicators
- C. The Scientific Method
- D. Environmental Systems
- E. System Analysis: Determining How Matter and Energy Flow in the Environment

Section II. Biodiversity: From Local to Global.....37%

- A. Biodiversity
- B. Evolution
- C. Changes in Environmental Conditions and Extinctions
- D. Human Activity and Biodiversity
- E. Linking Biodiversity and Evolution to Ecology
- F. Community Ecology
- G. Ecological Communities
- H. Major Aspects of Ecosystems
- I. Biomes
- J. Biogeochemical Cycles

Section III. The Human Impact on Natural Resources.....41%

- A. Water Pollution
- B. Air Pollution and the Atmosphere
- C. Energy Use and Sources
- D. Global Climate Change