

Science Terms and Concepts to Study for the Praxis II Elementary and Middle School Content Knowledge

Earth Science

- Types and formation of rocks
- Plate tectonics
- Soil
- Minerals
- Hydrosphere
- Atmosphere and layers
- Weathering and erosion
- Volcanoes and earthquakes
- Current. Waves, tides
- Water cycle
- Types of clouds
- Earth's history

Life Science

- Heredity-genetics-Punnett Squared
- Photosynthesis
- Food chain
- Ecosystem
- populations
- Evolution
- Viruses
- Bacteria
- Structure of cells
- Diffusion
- Osmosis
- Active transport
- Transpiration
- Respiration
- Organs and organ systems
- Asexual and sexual reproduction
- Growth and development
- DNA
- Genes and chromosomes
- Life cycle
- Migration
- Hibernation
- Adaptation
- Natural selection

Physical Science

- Chemical and physical change
- Parts of an atom
- Heat: convection, radiation, conduction
- Properties of matter
- Mixtures and solutions
- Elements
- Speed
- Distance
- Acceleration
- Newton's Law of Motion
- Law of gravitation
- Laws of thermodynamics

Chemistry

- Periodic table

Astronomy

- Arrangement of the planets
- Galaxies
- Solar system
- Earth
- Sun and moon
- Comet
- Meteor

Health

- Nutrition
- Exercise and fitness
- Safety and well-being
- Communicable diseases
- Substance abuse

Miscellaneous

- Variable
- Independent variable
- Independent variable
- Big bang
- Paleomagnetism
- Scientific method

People to Know

- Galileo
- Copernicus
- Newton
- Darwin