

# Science Course Outline 2023 - 2024

This is a syllabus for the science course at Banded Peak School. All dates are tentative and subject to change.

- 1) **Planet Earth** September - October
  - A. Minerals
  - B. Rocks and the rock cycle
  - C. Erosion
  - D. Moving Crust
  - E. Earthquakes, volcanoes and mountains
  - F. Fossils and geologic time
  
- 2) **Structures and Forces** November - December
  - A. Types of structures
  - B. Mass and forces
  - C. Forces, loads and stresses
  - D. How structures fall
  - E. Designing with forces
  - F. Stable structures
  
- 3) **Heat and Temperature** January - February
  - A. Using energy from heat
  - B. Measuring temperature
  - C. Particle model, temperature and thermal energy
  - D. Expansion and contraction
  - E. Changes of state and transferring energy
  - F. Conserving Fossil Fuels
  
- 4) **Plants for Food and Fibre** March - April
  - A. People and plants
  - B. Structure and adaptation
  - C. Plant reproduction and breeding
  - D. Meeting the need for food and fibre
  - E. Sustaining the soil
  - F. Pests and pest control
  
- 5) **Interactions and Ecosystems** May - June
  - A. Interactions within ecosystems
  - B. Human impacts
  - C. Environmental choices
  - D. Interactions of organisms
  - E. Environmental cycles
  - F. Environmental monitoring