**Topic A. Humans and Their Environment**

1. Basic Needs
   1. Gas exchange (air)
   2. Water
   3. Energy (food sun)
   4. Habitat
2. Human needs and wants
3. Symbiosis
   1. Mutualism
   2. Commensalism
   3. Parasitism
4. Adaptations
   1. Behavioral
   2. Structural

**Topic B: Flow of Energy and Materials**

1. Carbon Cycle
2. Water Cycle
3. Flow of Energy
   1. Trophic Levels (Producers, Consumers Decomposers)
   2. Food chains/Webs
   3. Predictions based on food web
4. Pollutants Distribution
   1. Bio accumulation
5. Biotic/Abiotic

**Topic C: Factors Affecting Organisms**

1. Types of Monitoring
   1. Biological
   2. Environmental
   3. Physical
   4. Chemical
2. Succession
   1. Primary
   2. Secondary
3. Factors
   1. Loss of Habitat
   2. Pollution (inc. pesticides
   3. Introduced Species (inc. Biological Controls)
4. Predator Prey Relationship

**Topic D: Environmental Decisions**

1. Sustainability
2. Effects of Pollutants on Environment
3. Factors Affecting Populations