

Northwestern School Corporation

2010 3<sup>rd</sup> Grade Science

Course Outline

- I. Plants
  - A. Main parts of a plant
    - 1. Roots
    - 2. Stems
    - 3. Leaves
  - B. Needs of a plant
    - 1. Air, water, soil sunlight
    - 2. Photosynthesis
  - C. Grouping plants by feature
    - 1. Looks
    - 2. Location
    - 3. Actions
  - D. Survival and growth
    - 1. Scattering of seeds
    - 2. Parts of a seed
    - 3. Track plant growth
  - E. Formation of fossils
    - 1. Extinction
    - 2. Adaptations to environment
  - F. Interaction with animals
- II. Animals
  - A. Classification
    - 1. Habitat
    - 2. Body features
    - 3. Actions
    - 4. Needs

- B. Adaptations for survival
  - C. Inherited traits
  - D. Vertebrates
  - E. Invertebrates
  - F. Life cycle
    - 1. Growth
    - 2. Rebirth
    - 3. Food chain
  - G. Migration/hibernation
  - H. Animal fossils
  - I. Extinct animals
- III. Plants and Animals Living Together
- A. Energy
    - 1. Sun
    - 2. Food
      - a) For plants
      - b) For animals
  - B. Ecosystems
    - 1. Forests
    - 2. Desert
    - 3. Grassland
    - 4. Freshwater
    - 5. Saltwater
  - C. Competition
    - 1. Food
    - 2. Shelter
    - 3. Survival
  - D. Changes to Habitats
    - 1. Helpful
    - 2. Harmful

IV. Water

A. Changes

1. Evaporation
2. Condensation
3. Precipitation

B. Location of earth's water

C. Importance

V. Weather

A. Parts of weather

1. Rotation of sun and moon
2. Stars
3. Clouds

B. Measuring tools used to predict weather

C. Patterns and Cycles

D. Severe weather

1. Hurricanes
2. Tornadoes
3. Blizzards

E. Human safety during severe weather

F. Production of energy due to weather

1. Windmills
2. Dams/water wheels

VI. Nutrition

A. Digestion

B. Food cycle through the body

C. Food groups

1. Food pyramid
2. Serving size

D. Balanced diet

- E. Healthy choices
    - 1. Dental routine
    - 2. Hygiene
  - F. Healthy bones and muscles
- VII. Minerals
- A. How minerals form
  - B. Compare multiple types of minerals
    - 1. Rock minerals
    - 2. Food minerals
  - C. Importance of soil
- VIII. Earth's Changes
- A. Earth's Layers
  - B. Formation of land types
  - C. Volcanoes
  - D. Earthquakes
  - E. Weathering
  - F. Erosion
  - G. Protecting earth's resources
    - 1. Reuse
    - 2. Renew
    - 3. Recycle