

Northwestern School Corporation

2010 2nd Grade Science

Course Outline

I. Life Science

A. Plants

1. Parts of a plant
2. Ways seeds travel
3. Flowering and non-flowering plants
4. Plant adaptations
 - a. woodland plants
 - b. prairie plants
 - c. desert plants
 - d. marsh plants

B. Animals

1. Animals with backbones
 - a. mammals
 - b. birds
 - c. fish
 - d. reptiles
 - e. amphibians
2. Animal adaptations
3. Animals without backbones

C. Plants and Animals Live Together

1. Needs of plants and animals
2. Food chains
3. Food webs

4. Changes in a food web
5. Interdependence of plants and animals

D. Living Things Grow and Change

1. Living things reproduce
2. Life cycles of animals
3. Life cycles of plants
4. Offspring resemble their parents

II. Earth Science

A. Earth's Land, Air, and Water

1. Natural resources
2. Rocks and soil
3. Earth changes
4. Protecting the Earth

B. Earth's Weather and Seasons

1. Kinds of weather
2. Water cycle
3. Seasons and changing weather
4. Severe weather and safety precautions

C. Fossils

1. Formation of fossils
2. Plants and animals of long ago
3. New discoveries

III. Physical Science

A. Matter

1. Properties of matter
2. States of matter
3. Changes in matter
4. Heating and cooling matter

B. Energy

1. Heat and light energy
2. Living things use energy
3. Sources of heat
4. Movement of light
5. Energy and matter interact
6. Other sources of energy

C. Forces and Motion

1. Relationship between force and motion
2. Push, pull, friction, gravity
3. Simple machines
4. Magnets

D. Sound

1. Vibrations and waves
2. Pitch and loudness
3. Traveling through different media
4. Animal sounds

5. Sounds in the environment

IV. Space and Technology

A. Space Science

1. Sun
2. Day and night
3. Earth's orbit and seasons
4. Moon and its phases
5. Constellations
6. Solar system

B. Technology

1. Improvements in transportation
2. Improvements in communication
3. Improvements in quality of life
4. Affects peoples' lives