

PETERS TOWNSHIP SCHOOL DISTRICT

CORE BODY OF KNOWLEDGE

SCIENCE

GRADE 2

For each of the sections that follow, students may be required to understand, apply, analyze, evaluate or create the particular concepts being taught.

COURSE DESCRIPTION

Students will learn about animals including their groups, how they grow and change, and how they survive. Students will explore concepts of movement including position, forces of gravity, simple machines, and magnets. Students will explore different sources and forms of energy including heat, sound, light, and electricity.

STUDY SKILLS

- Participate in classroom activities and complete workbook lessons and projects.

MAJOR UNIT THEMES:

1. ANIMALS

- Describe animals
- Classify animals
- Compare animals
- Explain how the parts of an animal help them meet their needs .
- Explore how we put animals into groups
- Explain and compare animal life cycles
- Explore how camouflage helps animals to be safe

2. HABITATS

- Describe different habitats
- Explain how animals use their habitats
- Describe a food chain
- Describe a food web
- Explain how habitats change
- Compare and contrast woodland and rain forests
- Describe desert habitats
- Describe ponds and oceans

3. HOW THINGS MOVE

- Describe the position of an object in relation to another object
- Investigate motion by measuring and recording changes in an object
- Understand that a force is a push or a pull
Compare what happens when different amounts of forces are applied
- Understand that a simple machine changes force
- Observe and describe the way magnets attract some objects
- Understand that objects can be sorted by attributes

4. USING ENERGY

- Understand that the Sun supplies heat and energy to the Earth
- Explore how different sounds are produced
- Understand that sound can be described by volume and pitch
- Explore the composition and properties of light
- Explore forms of electricity and their uses

MATERIALS (and Supplemental materials used in course):

- Science A Closer Look – Teacher’s Editions: Life Science, Physical Science, Earth Science
- Science A Closer Look – CD Rom
- Science A Closer Look – Consumable Workbook – Reading Essentials
- Science A Closer Look – Lab Activity Book – one per teacher
- Brainpopjr.com
- Discoveryeducation.com
- Supplemental books from school library
- District owned and approved videos and DVDs

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