

Grade level: 1

Course Title: Science

Topic/Concept: Life Cycle of the Butterfly

Time Allotment: 2 weeks

Unit Sequence: 1

**Major Concepts to be learned:**

1. The Life Cycle of the Monarch Butterfly
2. Migration of the Monarch Butterfly to Mexico

**Expected Skills to be demonstrated:**

1. Parts of the Butterfly
2. The Life Cycle of the Butterfly
3. Migration
4. Butterflies need for survival
5. Food chain
6. Habitat

**PA Standards/Anchors:**

**Eligible Content:**

3.1 A                      4.6 A  
3.3 A-C                    4.7 A  
4.3 A

- The students will use activities in the classroom to become knowledgeable of the life cycle of the butterfly.

**Instructional Strategies:**

**Assessments:**

Observing a real caterpillar as it changes into a butterfly  
Read alouds  
Classroom discussions  
Sequencing butterfly's life cycle

- Teacher observation
- Student participation

Grade level: 1

Course Title: Science

Topic/Concept: Trees and Plants

Time Allotment: 4 weeks

Unit Sequence: 2

**Major Concepts to be learned:**

1. Parts of a tree and plant
2. Needs of a tree and plant
3. Life Cycle of a tree and plant
4. Seasonal changes of a tree and plant
5. Life patterns of a tree and plant
6. Living and nonliving things

**Expected Skills to be demonstrated:**

1. Identifying the 4 main parts of a tree (roots, leaves, trunk, flower)
2. Trees and plants need water, soil, and sunlight to survive
3. Observing the life cycle
4. Identify local plants and animals

**PA Standards/Anchors:**

**Eligible Content:**

3.1 C, D, E	3.5 B	4.6 A
3.2 B	4.2 A-D	4.7 A
3.3 A-B, D	4.3 A	4.8 C

- The students will use information presented to have a better understanding of the importance of trees and plants.

**Instructional Strategies:**

**Assessments:**

Read Alouds  
Classroom discussions  
Observations

- Teacher Observation
- Student participation

Grade level: 1

Course Title: Science

Topic/Concept: Weather

Time Allotment: 4 weeks

Unit Sequence: 3

**Major Concepts to be learned:**

1. Recognize change in natural and physical systems
2. The Five Senses
3. Identify types of clouds
4. The Seasons

**Expected Skills to be demonstrated:**

1. Read a thermometer and use other weather instruments.
2. Identify the change of seasons.
3. Identifying and observing types of clouds.
4. Recording types of weather
5. Types of precipitation

**PA Standards/Anchors:**

**Eligible Content:**

3.1 B, E                      3.7 A-B  
3.2 B                          4.1 B  
3.5 C, D

- The students will use the information presented to have a better understanding of effects of weather.

**Instructional Strategies:**

**Assessments:**

Read Alouds  
Classroom discussions  
Observations

- Teacher Observation
- Student participation

Grade level: 1

Course Title: Science

Topic/Concept: Matter

Time Allotment: 4 weeks

Unit Sequence: 4

**Major Concepts to be learned:**

1. Properties of Matter (solid, liquids, and gases)
2. Changes of Matter
3. How mixtures are formed

**Expected Skills to be demonstrated:**

1. Identify changes and types of Matter
2. Make a mixture
3. Understand the use of energy to change Matter.
4. Understand forces repel and attract.

**PA Standards/Anchors:**

**Eligible Content:**

3.2 A-C  
3.4 A-C

- The students will use the information presented to observe and identify the three states of Matter.

**Instructional Strategies:**

**Assessments:**

Read Alouds  
Classroom discussions  
Observations  
Experiments  
Demonstrations

- Teacher Observation
- Student participation

Grade level: 1

Course Title: Science

Topic/Concept: Agriculture

Time Allotment: 2 weeks

Unit Sequence: 5

**Major Concepts to be learned:**

1. The importance of agriculture to humans
2. Pennsylvania farm life

**Expected Skills to be demonstrated:**

1. Identify products from PA farms.
2. Identify animals and plants on a PA farm.
3. Identify crops grown on a PA farm.
4. Identify what plants, animals, human need to survive (dependence on agriculture).
5. Explain pest control and why we need pest management.
6. Know types pests on a home and a farm.
7. Identify common soil textures.

**PA Standards/Anchors:**

**Eligible Content:**

4.4 A-B      4.7 B  
4.5 A-C  
4.6 A

- The students will use the information presented to know the importance of Pennsylvania agriculture in daily life.

**Instructional Strategies:**

**Assessments:**

Read Alouds  
Classroom discussions  
Guest speaker

- Teacher Observation
- Student participation

Grade level: 1

Course Title: Science

Topic/Concept: Water Environments

Time Allotment: 4 weeks

Unit Sequence: 6

**Major Concepts to be learned:**

1. Ecosystems
2. Different kinds of water environments

**Expected Skills to be demonstrated:**

1. Identify living and nonliving things found in specific water habitats.
2. Difference of water environments (ponds, wetlands, swamps, rivers, creeks, oceans)
3. Seasonal changes of various water environments and the effects on the animals living there.

**PA Standards/Anchors:**

**Eligible Content:**

3.1 C      4.1 A-D      4.7 A  
3.3 A, C, D      4.3 A, C  
3.5 A      4.6 A

- The students will use the information provided to know the various water environments.

**Instructional Strategies:**

**Assessments:**

Read Alouds  
Classroom discussions  
Walking field trip

- Teacher Observation
- Student participation

Grade level: 1

Course Title: Science

Topic/Concept: Recycling

Time Allotment: 2 weeks

Unit Sequence: 7

**Major Concepts to be learned:**

1. The importance of recycling
2. The effects of littering on the environment

**Expected Skills to be demonstrated:**

1. Identify the recycling symbol
2. Know how recycling effects our environment
3. Know the difference between reduce, reuse, and recycle

**PA Standards/Anchors:**

**Eligible Content:**

3.2 D      3.2 D  
4.2 D      4.8 A-C  
4.3 B

- The students will use the information provided to become Earth friendly citizens.

**Instructional Strategies:**

**Assessments:**

Read Alouds  
Classroom discussions  
Classroom participation in school-wide recycling project

- Teacher Observation
- Student participation