

## **GRADE LEVEL AND CONTENT AREA:**

K/Science

Seasons

- ☺ This unit is about the four seasons. You will be exploring how trees change over the season. You will also observe how weather changes over the seasons and how that influences how we live our lives in what we wear.

## **STANDARDS AND INDICATORS (LISTED BY NUMBER):**

A.8. Relate seasonal weather patterns to appropriate choices of clothing and activities.

**GRADE-LEVEL CONCEPT:** ♦ Daily and seasonal weather conditions affect what we do, what we wear and how we feel.

### **GRADE-LEVEL EXPECTATIONS:**

- 1. Changes in weather conditions can be recorded during different times of day, from day to day, and over longer periods of time (seasonal cycle). Repeated observations can show patterns that can be used to predict general weather conditions. For example, temperatures are generally cooler at night than during the day and colder in winter than in spring, summer or fall.**
- 2. Weather influences how we dress, how we feel, and what we do outside.**
- 3. Weather affects the land, animals and plants, and bodies of water.**

### **CONCEPTS: Need To know about ...**

- ❖ Seasons and how they relate to appropriate choices in life and how they relate to animals.
- ❖ There are 4 seasons (season occur both on land and in water)
- ❖ Each season has it own weather.
- ❖ Weather in each season affects choices we make.
- ❖ Weather can vary in each season.
- ❖ Animals can have different behaviors patterns in different seasons.

**SKILLS: Be able to do:**

- Relate seasonal weather to choices in clothing and activity.
- Identify the four seasons and recognize the seasonal weather patterns.
- Predict what clothes or activities will be appropriate for a specific season.
- Record observations of weather related to clothing, sports, animals (activities).

**MISCONCEPTIONS:**

- The seasons are caused by how far the earth is from the sun. (The seasons are caused by the tilt of the earth on its axis)
- Seasons only occur on land.
- Seasons only influence people.

**KEY SCIENCE VOCABULARY:** weather, season (winter, spring, summer, fall), thermometer, precipitation, freezing, melt

**TOPICS OR CONTEXT: (WHAT YOU WILL USE TO TEACH CONCEPTS AND SKILL-PARTICULAR UNIT, LESSONS, ACTIVITIES)**

Literature- (fiction and non-fiction)

Websites

Significant task

Observation of weather patterns (graphs- professional and class produced.)

Foss Tree Kit: Module: Trees Through the Seasons

**SUGGESTED BIG IDEAS FROM “UNWRAPPED” STANDARD AND INDICATORS/Cumulative questions:**

1. Seasons have patterns (weather and calendar).
2. Season influences choices.
3. Seasons influences animal behavior.
4. Seasons are related to weather.

## **ESSENTIAL QUESTIONS TO GUIDE INSTRUCTION AND ASSESSMENT:**

1. How do seasons affect human choices and animals lives?
2. What makes the seasons different from each other?
3. Why are seasons important to know about?
4. What are seasons?

## Lesson Plan Outline for Seasons Unit

Lesson	Objective/Purpose	Goal	Done
1	Introduction to the 4 Seasons	Students will be able to recite the four seasons and understand that each has different characteristics that make the season unique.	
2	Choose clothes appropriate to the season.	Students will recognize that different seasons will require different clothes.	
3	Chart the weather	Students will learn how to chart the daily weather on graph. This can become part of the Saxon meeting.	
4	Foss Kit: Trees: Through the Seasons Fall part 1 What Comes From a Tree	Students observe what falls from trees and study tree fruits and nuts.	
5	Foss Kit: Trees: Through the Seasons Fall part 2 Food from Trees	Students will recognize that fruit comes from trees and that fruit has a structure.	
6	Foss Kit: Trees: Through the Seasons Fall part 3 Visiting Adopted Trees in Fall	Students will visit the tree(s) and recognize its fall characteristics it has in the fall	
7	Foss Kit: Trees: Through the Seasons Winter part 4 Evergreen Hunt	Students will recognize that all evergreens can have different types of leaves, needles, and	

		scales.		
<b>8</b>	Foss Kit: Trees: Through the Seasons Winter part 5 Winter Twigs	Students will recognize the structure of a branch in the winter		
<b>9</b>	Foss Kit: Trees: Through the Seasons Winter part 6 Visiting Adopted Trees in Winter	Students will visit the tree(s) and recognize its fall characteristics it has in the winter		
<b>10</b>	Foss Kit: Trees: Through the Seasons Spring part 7 Forcing Twigs	Students will recognize what happens to a bud in spring		

<b>11</b>	Foss Kit: Trees: Through the Seasons Spring part 8 Bark Hunt	Students will recognize that all bark has similarities and differences.		
<b>12</b>	Foss Kit: Trees: Through the Seasons Spring part 9 Visiting Adopted Trees in Spring	Students will visit the tree(s) and recognize its fall characteristics it has in the spring		
<b>13</b>	Culminating Activity	Students will make a book about the seasons that they have generated throughout the school year.		