

Unit 1**Essential Question: What Are Some Changes We See in Trees During the Year?****Major Understandings:**

- LE 1.1B** Plants require air, water, and food in order to live and thrive
- LE 1.2A** Living things grow, take in nutrients, breathe, reproduce, eliminate waste and die.
- LE 3.1B** Each plant has different structures that serve different functions in growth, survival, and reproduction.
- LE 3.1C** In order to survive in their environment, plants and animals must be adapted to that environment.
- LE 4.2A** Growth is the process in which plants and animals increase in size.
- LE 5.1A** Describe how living things grow, take in nutrients, breathe, reproduce, eliminate waste and die.
- LE 5.2A** Plants respond to changes in their environment.

*Unit One also addresses the Process Skills as outlined in the NYC Science Scope and Sequence

Kindergarten

Lesson 1 – Using Our Senses to Observe

Objective(s):

- To identify and describe the five senses.
- To use the five senses to observe and learn about the world.
- To identify the sensory organ associated with each sense.
- To observe the many properties of one object.

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
Getting Ready to Investigate TE 3 Science Background TE 7 *HAVE APPLES AVAILABLE... VARIETY OF COLORS, SIZES, etc.	Unit Ready, Set, Science Assess Prior Knowledge TE 8 Investigate TE 8	Inquiry Skill Mini-Lesson TE 9, AB 5	

Lesson 2 – Using Our Senses to Observe

Objective(s):

- To understand what inquiry skills are.
- To know/discover how inquiry skills are used.

PS 3.1b, c, d, e

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
Science Background TE 8	<i>My Senses</i> Science Reader , pp. 1-8	AB, p. 6	

Kindergarten

Lesson 3 – Using Science Inquiry Skills**Objective(s):**

- To observe surroundings, pose questions, investigate, and check and share findings.
- To use simple equipment and methods of measurement.

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
Getting Ready to Investigate TE 3 Science Background TE 10	Unit Ready, Set, Science Assess Prior Knowledge TE 10 Investigate TE 10	Inquiry Skill Mini-Lesson TE 11, AB	

Lesson 4 – Using Science Inquiry Skills**Objective(s):**

- To observe surroundings, pose questions, investigate, and check and share findings.
- To use simple equipment and methods of measurement.

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
	Unit 3, 4.2 Reading in Science TE 11; Big Book 3	Concept Review: AB 8	

Kindergarten

Lesson 5 – Using Science Tools

Objective(s):

- To identify science tools.
- To recognize how science tools help in investigations.
- To use a hand lens and balance to help analyze objects.
- To describe safe ways to conduct investigations.

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
Getting Ready to Investigate TE 3 Science Background TE 12	Unit Ready, Set, Science Assess Prior Knowledge TE 12 Investigate TE 12	Inquiry Skill Mini-Lesson TE 13, AB 9	

Lesson 6 – Using Science Tools

Objective(s):

- To identify science tools.
- To recognize how science tools help in investigations.
- To use a hand lens and balance to help analyze objects.
- To describe safe ways to conduct investigations.

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
	Unit 3, 4.2 Reading in Science TE 13; Big Book 4 Transparency: 10, 11, 12 <i>Big Book of Rhymes and Songs</i> pp 3-4	Concept Review: TE 13, AB 10	Curriculum Integration Math – TE Writing – TE Music – TE Art – TE

Kindergarten

Lesson 7 – What Are Plants Like?

Objective(s):

- To draw conclusions about different kinds of plants.
- To identify trees, grass, and shrubs as kinds of plants.
- To observe and describe similarities and differences in the sizes and shapes of plants.
- To describe variations that exist in the same kind of plant.

LE 3.1B

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
Plan Ahead for Activities TE 257 Science Background TE 261, 262	Chapter 8.1 Assess Prior Knowledge TE 262 Investigate TE 262 <i>Big Book of Science Songs and Rhymes</i> , p. 21	Reteach TE 263 Inquiry Skill Mini-Lesson TE 263, AB 77	

Lesson 8 – What Are Plants Like?

Objective(s):

- To draw conclusions about different kinds of plants.
- To identify trees, grass, and shrubs as kinds of plants.
- To observe and describe similarities and differences in the sizes and shapes of plants.
- To describe variations that exist in the same kind of plant.

LE 3.1B

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
	Chapter 8.1 Reading in Science TE 264-267 Big Book 83-84 Transparency 3 Science Reader <i>The Gardener</i>	Reaching All Learners <ul style="list-style-type: none"> • Reteach TE 267 • ESL 266 Concept Review TE 267, AB 78	Curriculum Integration Writing – TE 268 Math – TE 269 Social Studies – TE 268 Music – TE 269 Language Arts – TE 269

Kindergarten

Lesson 9 – What Do Plants Need?**Objective(s):**

- To hypothesize what plants need to live.
- To identify four things that plants need to live.
- To describe where plants get the things they need to live.

LE 1.1B, LE 1.2A

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
Plan Ahead for Activities TE 257 Science Background TE 270	Chapter 8.2 Assess Prior Knowledge TE 270 Investigate TE 270 Big Book 85	Reteach TE 271 Inquiry Skill Mini-Lesson TE 271, AB 79	

Lesson 10 – What Do Plants Need?**Objective(s):**

- To hypothesize what plants need to live.
- To identify four things that plants need to live.
- To describe where plants get the things they need to live.

LE 1.1B, LE 1.2A

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
	Chapter 8.2 Reading in Science TE 272-273 Big Book 86 Science Reader <i>The Gardener</i>	Reaching All Learners • ESL/ESOL TE 273 Concept Review TE 273, AB 80	Curriculum Integration Writing – TE 275 Art – TE 275 Math – TE 275 Drama – TE 274 Language Arts – TE 274

Kindergarten

Lesson 11 – How Do Plants Grow and Change?**Objective(s):**

- To observe and identify the parts of a plant.
- To describe how plant parts help a plant live.
- To describe a plant's life cycle.

LE 1.1B, LE 1.2A, LE 3.1B, LE 3.1C, LE 4.2A, LE 5.1A, LE 5.2A

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
Plan Ahead for Activities TE 257 Science Background TE 276	Chapter 8.3 Assess Prior Knowledge TE 276 Investigate TE 276 <i>Science Songs: "Leaves and Roots, Stems and Flowers"</i> Big Book 87	Reteach TE 277 Inquiry Skill Mini-Lesson TE 277, AB 81	

Lesson 12 – How Do Plants Grow and Change?**Objective(s):**

- To observe and identify the parts of a plant.
- To describe how plant parts help a plant live.
- To describe a plant's life cycle.

LE 1.1B, LE 1.2A, LE 3.1B, LE 3.1C, LE 4.2A, LE 5.1A, LE 5.2A

Advanced Planning/ Notes to Teachers	Core Lesson	Differentiated Support/ Homework	Connections
	Chapter 8.3 Reading in Science TE 278-281 Science Reader <i>The Gardener</i> Big Book 88-89	Reaching All Learners <ul style="list-style-type: none"> • ESL/ESOL TE 279 • Reteach TE 280, 281 Concept Review TE 281, AB 82	Curriculum Integration Math – TE 283 Music – TE 282 Language Arts – TE 282 Drama – TE 283 Health – TE 283