

**Unit 1****Essential Question: What Are Some of the Properties of Matter?****Major Understandings:**

- 3.1b** Matter has properties (color, hardness, odor, sound, taste, etc.) that can be observed through the senses.
- 3.1c** Objects have properties that can be observed, described, and/or measured: length, width, volume, size, shape, mass or weight, temperature, texture, flexibility, reflectiveness of light.
- 3.1d** Measurements can be made with standard metric units and nonstandard units. (Note: Exceptions to the metric system usage are found in meteorology.)
- 3.1e** The material(s) an object is made up of determine some specific properties of the object (sink/float, conductivity, magnetism). Properties can be observed or measured with tools such as hand lenses, metric rulers, thermometers, balances, magnets, circuit testers, and graduated cylinders

## Grade 3

**Lesson 1 – What Are Some Science Inquiry Tools?****Objective(s):**

- To use tools to measure different liquids.
- To identify some inquiry tools.
- To recognize what certain tools are used for.

PS 3.1b, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
Science Background TE 1E, 2, 8 Preparation TE 1B Video Segment 0300	<b>What Are Some Inquiry Tools?</b> <b>Get Ready Lesson 1, pp. 2-9.</b>	Reading Review TE 9 Inquiry Skill Mini-Lesson TE 3, IS 1 Investigate Further TE 3 LM 15 Daily Inquiry TE 2, DI 1 Insta-lab PE 5	Writing TE 9 Math TE 9

**Lesson 2 – What Are Some Science Inquiry Skills?****Objective(s):**

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

PS 3.1b, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
Plan Ahead for Activities TE 1B Science Background TE 10, 13 Video Segment 0301 When Minutes Count TE 10	<b>What Are Some Inquiry Skills?</b> <b>Get Ready Lesson 2, pp. 10-17.</b>	Investigate Further TE 11, LM 18 Daily Inquiry TE 10, DI 2 Inquiry Skill Mini-Lesson TE 11, IS 2	Curriculum Integration TE Writing TE 17 Art TE 17

**Grade 3**

**Lesson 3 – What Is The Scientific Method?**

**Objective(s):**

- To observe changes in the colors of bubbles.
- To identify the scientific method.
- To put the scientific method into practice.

PS 3.1b, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
Plan Ahead for Activities TE 1B Science Background 18	<b>What Is The Scientific Method? Get Ready Lesson 3, pp 18-23.</b> Assess Prior Knowledge TE 18 Vocabulary TE 20 Investigate TE 19 Reading in Science TE 20-23	Investigate Further TE 19 LM 21 Daily Inquiry TE 18, DI 3 Inquiry Skill Mini-Lesson TE 19, IS 3	Writing – TE 23 Math – TE 23

**Lesson 4 – Unit E Experiment**

**Objective(s):**

- To promote scientific inquiry.
- To use a scientific method to plan and conduct a long-term investigation.
- To design an experiment to determine what mixture of sand and water will make the best sand sculptures.

PS 3.1b, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
Science Background TE 369A	Unit E TE 369A-369B Independent, Guided, and Structured Inquiry	Lab Manual 131-134 Transparency 17-20	

## Grade 3

**Lesson 5 – What Is Matter?****Objective(s):**

- To understand what matter is.
- To measure some physical properties of water.

PS 3.1b, c, d, e

**Advanced Planning/  
Notes to Teachers**

Plan Ahead for Activities TE 370B  
 Science Background TE 372  
 Video Segment 3000  
 When Minutes Count TE 372

**Core Lesson**

**Unit E**  
 Assess Prior Knowledge TE 372  
 Vocabulary TE 373  
 Investigate TE 372-373

**Differentiated Support/  
Homework**

Investigate Further TE 373, LM 137  
 Daily Inquiry TE 372, DI 35  
 Inquiry Skill Mini-Lesson TE 373,  
 IS 35

**Connections****Lesson 6 – What Is Matter?****Objective(s):**

- To understand what matter is.
- To measure some physical properties of water.

PS 3.1b, c, d, e

**Advanced Planning/  
Notes to Teachers****Core Lesson**

**Unit**  
 Reading in Science TE 374-381  
 Insta-Lab TE 379

**Differentiated Support/  
Homework**

Reaching All Learners  
 • Challenge TE 380  
 • Reteach TE 375, 376  
 Reading Review TE 381  
 Quick Study TE 381  
 Reading Support & Homework 81-82

**Connections**

Math – TE 378  
 Writing – TE 381  
 Music – TE

## Grade 3

**Lesson 7 – What Are the States of Matter?****Objective(s):**

To identify the three stages of matter.

PS 3.1b, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
Plan Ahead for Activities TE 370B Science Background TE 382 Video Segment 3001 When Minutes Count TE 382	<b>Unit E</b> Assess Prior Knowledge TE 382 Vocabulary TE 383 Investigate TE 383	Investigate Further TE 383, LM 140 Daily Inquiry TE 382, DI 36 Inquiry Skill Mini-Lesson TE 383, IS 36	

**Lesson 8 – What Are the States of Matter?****Objective(s):**

To identify the three stages of matter.

PS 3.1b, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
	<b>Unit E</b> Reading in Science TE 384-389 Insta-Lab TE 385	Reaching All Learners <ul style="list-style-type: none"> <li>• ESL/ESOL TE 387</li> <li>• Reteach TE 386, 388</li> <li>• Challenge TE 385</li> <li>• Enrichment TE</li> </ul> Reading Review TE 389 Quick Study TE 389 Reading Support & Homework 83, 84	Math – TE 89 Writing – TE 89

## Grade 3

**Lesson 9 – How Does Matter Change?****Objective(s):**

- To understand what physical and chemical changes are.
- To understand what mixtures and solutions are.

PS 3.1bb, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
Plan Ahead for Activities TE 370B Science Background TE 390 Video Segment 3002 When Minutes Count TE 390	<b>Unit E</b> Assess Prior Knowledge TE 390 Vocabulary TE 390 Investigate TE 391	Investigate Further TE 391, LM 143 Daily Inquiry TE 390, DI 37 Inquiry Skill Mini-Lesson TE 391, IS 37	

**Lesson 10 – How Does Matter Change?****Objective(s):**

- To understand what physical and chemical changes are.
- To understand what mixtures and solutions are.

PS 3.1bb, c, d, e

<b>Advanced Planning/ Notes to Teachers</b>	<b>Core Lesson</b>	<b>Differentiated Support/ Homework</b>	<b>Connections</b>
Science Background TE 396	<b>Unit E</b> Reading in Science TE 392-397 Insta-Lab TE 396	Reaching All Learners <ul style="list-style-type: none"> <li>• ESL/ESOL TE 395</li> <li>• Reteach TE 395</li> <li>• Challenge 393</li> </ul> Reading Review TE Quick Study TE 397 Reading Support & Homework 85-86	Writing – TE 397 Math – TE 397 Social Studies – TE 394a