

Lesson 47: Object Study & Description — The Apple

PLL PART TWO



Classical Inquiry • The Apple

"What is in my hand? On what kind of a tree did it grow? What shape is it? What color is it? What is the white part called? What color are the seeds when the apple is ripe? For what are apples used?"

Object Study Focus: Botanical anatomy of fruit (peel, pulp, core, seeds) • Sensory adjectives • Full-sentence answers.

1 FRUIT OBSERVATION & STRUCTURE

Examine the apple and its cross-section. Answer each inquiry question accurately.

1. **Growth:** On what kind of a tree does an apple grow? On an _____
2. **Shape & Colors:** What shape is it, and what colors can its skin be? _____
3. **Inner Flesh:** What is the crisp white edible part called? The _____
4. **Ripe Seeds:** What color do the seeds turn when the apple is fully ripe? _____

2 ANATOMY DETECTIVE & FULL SENTENCES

Match each part of the apple to its scientific description and form a complete sentence.

A. Part Matching: Draw a line to match the term to its definition:

Peel (Skin) • • Houses the small seeds | **Pulp (Flesh)** • • Protects outside | **Core** • • Sweet edible part

B. Full Sentence Rule: Write a complete declarative sentence answering: *For what are apples used?*

Sentence: _____

3 DESCRIPTIVE PARAGRAPH COMPOSITION

Combine your observations into two descriptive sentences about eating a fresh autumn apple.

Sentence 1: _____

Sentence 2: _____

4 ORCHARD LIFE REFLECTION

Why do farmers harvest apples in autumn before the frost arrives? Write one complete sentence.

My Thought: _____

1 OBJECT LESSON PEDAGOGY: THE APPLE

Pestalozzian Object Teaching (Serl): Train pupils to observe concrete objects using sensory attributes (shape, color, texture, interior parts, seeds) before expressing scientific facts in oral and written sentences.

Standards Addressed: CCSS.ELA-LITERACY.RI.2.1 (Key Details & Observation), L.2.1 (Complete Sentence Construction), L.2.5.A (Real-world word connections).

✓ COMPLETE ANSWER KEY

Section 1: Fruit Observation & Structure

- Growth: *apple tree*.
- Shape & Colors: *Round (spherical) / Red, green, yellow, or striped*.
- Inner Flesh: *flesh or pulp*.
- Ripe Seeds: *Dark brown or black*.

Section 2: Anatomy Detective & Full Sentences

A. Matching: Peel → *Protects outside*; Pulp → *Sweet edible part*; Core → *Houses the small seeds*.

B. Full Sentence: *Apples are used for eating fresh, making cider, and baking sweet pies.* (Must start with capital and end with period).

Section 3: Descriptive Paragraph Composition (Sample Answers)

A ripe red apple is round, smooth, and sweet. When you bite into the crisp white flesh, it tastes juicy and delicious.

Section 4: Orchard Life Reflection (Sample Answers)

- Farmers pick apples in autumn so the cold frost does not freeze or bruise the ripe fruit.*

! DIAGNOSTIC GUIDE & SENSORY PROMPTS

- **Concrete Hands-on Demonstration:** If feasible, cut an apple crosswise to reveal the five-pointed star containing the seeds. Point out the core, stem, and skin.
- **Avoiding Fragments:** Ensure students write full sentences rather than single-word fragments (e.g., "It grew on an apple tree." vs. "apple tree").

★ SCORING RUBRIC (20 POINTS TOTAL)

Evaluation Metric	Exemplary (5 Pts)	Proficient (3-4 Pts)	Developing (1-2 Pts)
Scientific Anatomy	Identifies all anatomical fruit parts (peel, pulp, core, seeds) with 100% precision.	Identifies 3 parts correctly; recognizes apple tree origin and seed color.	Confuses core and flesh; answers incomplete or inaccurate.
Sentence Construction	Answers in complete, grammatically sound sentences with proper capitalization and periods.	Mostly complete sentences; 1 minor capitalization or punctuation omission.	Multiple fragmented answers lacking subject or predicate.
Descriptive Writing	Writes 2 vivid sentences using sensory adjectives (crisp, juicy, sweet, round).	Writes 2 clear descriptive sentences with good vocabulary.	Sentences disjointed, brief, or repetitive.
Penmanship & Neatness	Neat, legible handwriting adhering to guidelines; exemplary spacing.	Legible handwriting; minor spacing inconsistencies.	Handwriting uneven; difficult to read.