

Lesson Subject/Title:	From Seed to Plant: Exploring Hemp's Growth Journey	
Standards	Learning Targets	Materials
<p>PENNSYLVANIA K-2</p> <ul style="list-style-type: none"> • k-2-ets1-1 • k-2-ets1-2 • k-2-ets1-3 	<ol style="list-style-type: none"> 1. Describe the sequential stages of hemp plant growth from seed to mature plant, demonstrating understanding of plant life cycles. 2. Identify and name the main parts of a hemp plant (roots, stem, leaves, and flower), applying their knowledge of plant structures. 3. Arrange picture cards in the correct order to represent the growth process of hemp, analyzing and evaluating the sequence of plant development 	<ol style="list-style-type: none"> 1. "The Hero Seed" book (1 per class or small group) 2. Large poster or whiteboard for class discussion 3. Colored markers or dry-erase markers (set of 4-6) 4. Plant growth sequence cards (1 set per group of 3-4 students) 5. Plant part labels (roots, stem, leaves, flower) - 1 set per group 6. Blank paper for drawing (1 sheet per student) 7. Colored pencils or crayons (1 set per group of 4-5 students) 8. Safety scissors (1 pair per student) 9. Glue sticks (1 per group of 4-5 students) 10. Optional: Seeds for observation. (Hemp seeds must need license to grow) 11. Optional: Pictures of posters of mature hemp plants
Introduce/Activate		Strategies
<p>Begin the lesson by gathering students in a circle on the floor. Show them a small bag of mixed seeds (including hemp seeds if applicable) and ask, "What do you think these are?" Allow students to share their ideas.</p> <p>Next, hold up a seed and say, "This tiny seed can grow into a big, tall plant! How do you think that happens?" Encourage students to share their thoughts about how plants grow.</p> <p>Play a quick game called "Seed to Plant." Explain that you'll call out different stages of plant growth, and they should act them out:</p> <ul style="list-style-type: none"> • "You're a tiny seed in the soil!" (Students curl up small on the floor) • "The sun is warming you up!" (Students start to wiggle) • "Rain is falling, and you're starting to grow!" (Students slowly begin to stand) • "Your stem is getting taller!" (Students stretch up) • "Your leaves are growing!" (Students spread their arms out) • "You're a big, tall plant!" (Students stand tall with arms stretched high) <p>After the game, show the cover of "The Hero Seed" book. Ask students to predict what the story might be about based on the title and cover illustration. Finally, introduce the main question for the lesson: "How does a tiny seed grow into a big plant?" Explain that they'll be learning about this process by reading a story and doing some fun activities.</p>		<p>Engagement:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Discussion Question <input type="checkbox"/> Accountable Talk <input type="checkbox"/> Modeling <input type="checkbox"/> Cooperative Learning <input type="checkbox"/> Graphic Organizer <input type="checkbox"/> Partner Work <input type="checkbox"/> Small Group Work <input type="checkbox"/> Guided Practice <input type="checkbox"/> Independent Practice <input type="checkbox"/> Conferences <p>Assessment:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Oral Feedback <input type="checkbox"/> Exit Ticket <input type="checkbox"/> Individual Response <input type="checkbox"/> Response Cards <input type="checkbox"/> Self-Reflection <input type="checkbox"/> Journal Entry <input type="checkbox"/> Rubric