

Student Teacher Candidate: Lexi Callander
 Lesson Subject(s)/Title: What does it take for a plant to grow?
 Lesson Date(s): 9/20/2018
 Course & Grade(s): 2nd or 3rd Grade

INSTRUCTIONAL MATERIALS:

- *If You Plant a Seed* by Kadir Nelson
- Small Pot, Soil, Water, Garbage Bag, Marker
- Plant parts and stages for pumpkins, peas, and beans worksheet
- KWL Chart

ESSENTIAL QUESTIONS/ SUBSIDIARY QUESTIONS:

What does a plant need to grow?
 What are the steps to planting a seed?
 How long will it take for the plant to reach different stages?
 What are the different parts of a plant?

PURPOSE:

Students will understand what a plant needs, the different parts of a plant, and how it grows. They will have the opportunity to plant their own seed and can choose from three different seeds after looking at the processes of each one. The three choices are pumpkin, peas, and beans.

SPECIFIC LEARNING OBJECTIVES: (clear, observable)

1. Using prior knowledge, the student will fill out what they know and want to know about plants and how they grow after being given a KWL chart.
2. After filling out what they know, the students will listen to a read aloud and confirm what a plant needs to grow.
3. After being given the "Plant Parts and Types" worksheet, students will observe the parts of the plant and how a plant grows in stages.
4. After receiving the correct materials and choosing what plant they want to grow, students will follow each step with the teacher to put their seed in soil.

STANDARDS:

Subject Area: Science (Project Learning Tree)

Eligible Content:

- 3.1.1.A2 (Investigate the dependence of living things on the sun's energy, water, food/nutrients, air, living space, and shelter.)
- 3.1.1.A5 (Identify and describe plant parts and their function.)
- 3.1.1.B1 (Grow plants from seed and describe how they grow and change. Compare to adult plants.)

DIFFERENTIATION STRATEGIES:

Students can work in groups to help each other physically plant the seed in case of fine motor skills.

Students can have sections of the worksheet filled in from the text or have the text provided while they fill out the worksheet.

Sensory Register	STM	LTM
Attention Recognition Perception	Focus Organization Rehearsal Visualization	Connections Elaborations Meaning

Facets of Understanding

1. Explanation
2. Interpretation
3. Application
4. Perspective
5. Empathy
6. Self-Knowledge

Multiple Intelligences

1. Linguistic [words]
2. Visual [pictures]
3. Mathematical [numbers & reasoning]
4. Kinesthetic [hands-on]
5. Musical [music]
6. Interpersonal [social]
7. Intrapersonal [self]
8. Naturalist [nature]

Multiple Exposures [4 x 2]

1. Dramatization
2. Visualization
3. Verbal

Complex Interactions

1. Discussion
2. Argumentation

Bloom's Taxonomy

1. Knowledge [Verbatim]
2. Comprehension [Own Words]
3. Application [Problem-Solving]
4. Analysis [Identify components]
5. Synthesis [Combine information]
6. Evaluation [Decisions]

Aspects of the Topic

1. Facts
2. Compare
3. Cause/Effect
4. Characteristics
5. Examples
6. Relationships

9 Effective Strategies

1. Similarities and Differences
2. Summarization and Note Taking
3. Reinforcing Effort and Providing Recognition
4. Homework and Practice
5. Nonlinguistic Representations
6. Cooperative Learning
7. Setting Objectives and Providing Feedback
8. Generating and Testing Hypotheses
9. Questions, Cues, and Advanced Organizers

ANTICIPATORY SET:

Students will fill out the KWL Chart on what they know about plants and what they want to know about plants.

INPUT/ ACQUIRE NEW KNOWLEDGE:

1. Students will listen to a read aloud of the book *If You Plant a Seed* by Kadir Nelson. They will then go back over the “Know” and “Want to Know” section of their KWL charts with the teacher. The teacher will draw a large KWL chart on the board that represents the worksheet they filled out. They will then fill this large KWL out together. They will confirm that plants need water, sunlight, air, and care to grow before moving on to the next part of the lesson.
2. Students will be given a worksheet that shows them the different parts and stages of plants. The plants on the worksheet will be beans, pumpkins, and peas. They will listen to the teacher describe the parts of a plant briefly.

and/or

APPLY/ DEEPEN NEW KNOWLEDGE:

1. Students will take the seed that they chose and follow the steps to planting it. The students will need their pot, soil, water, and seed. They will return the seed to the front of the classroom once it is planted and they have put their name on it.
2. Students will watch the plant grow over time. They will notice any changes and identify the parts of the plant once it starts to grow.

CLOSURE/ASSESSMENT:

At the end of the lesson, students will complete the “L” part of their KWL. They will write what they learned about plants.

HOMEWORK: (Purpose- Preparation, Practice, Expansion)

N/A

EVALUATION/ASSESSMENT OF STUDENTS:

At the end of every week, students will fill out a journal entry of how far the plants have come and what different parts have grown.

INSTRUCTIONAL PROCEDURES:

Time:

<p>The teacher will:</p> <ol style="list-style-type: none"> 1. Provide KWL Chart for students. 2. Read Aloud <i>If You Plant a Seed</i> by Kadir Nelson and tell students to think about what helps a plant grow while they are listening. 3. Clarify the “K” and “W” on the board as a whole class. 4. Give students the plant stages and parts worksheet and help them understand the information. 	<p>The students will:</p> <ol style="list-style-type: none"> 1. Students fill out “K” and “W” of chart. 2. Listen to the read aloud and think of what different essentials are needed for plant to grow while the teacher is reading. 3. Help the teacher fill out a KWL chart on the board and use the read aloud to help. 4. Fill out the worksheet of stages and parts of plants while the teacher is
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<ol style="list-style-type: none">5. Instruct the students to pick out which seed they want to plant.6. Instruct the students on how to plant their seed.7. Place seeds in growing environment so that students can observe over time.8. Have the students write down what they learned today.	<p>talking.</p> <ol style="list-style-type: none">5. Choose the seed they want to plant.6. Plant the seed and follow the correct steps.7. Observe the plants over time and complete the journal entries.8. Fill out the "L" section of the KWL.
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