

Lesson Plan for BI.1.12 (STEM Assiut)

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Subject	Biology	Ecology	
Grade	3	3	
Teacher:	sandy gamal	School:	STEM Assiut
Learning Outcome			
LO Code	BI.1.12	LO text	Main objective: Make a Mind Map of the role of the support in the plant and identify its structural components. - Sub-goals: - Explaining in drawing the physiological and structural support of the plant. - Writes the importance of the support in the plant life cycle.
Concepts		Skills	
1. Plant support		1. Use microscopes to make and record observations of	
Duration of Learning Outcome			
From Week 01 To Week 02			
Evidence of Learning Outcome			
Capstone Connection			
Textbook & Resource Material			
1. Science book for the third year of secondary school.			
Essential Question/s			
Is energy neither created nor destroyed within an ecosystem?			
Lesson Number in LO Sequence			
LO 1			
Objective/s for Lesson			
1. Introducing students to the concept of support in plants and its importance.			
Evidence of Achievement of Lesson			
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Instructional Activity #(1)	
Purpose of Activity	Identifying the support components in the plant (roots, stems, and leaves)
Estimated Time:	10 minuts
Organization of Students - Student will work in:	groups
Teaching Strategy	Inquiry-based learning - brainstorming
Specific concept and/or skill addressed	roots, stems, and leaves
Description of Activity	Students analyze plant samples and identify their parts.
Connections to Capstone, Grand Challenge, other subjects
Formative Assessment During Learning:	Monitor student participation and correct any errors.
<i>Do you have another instructional activity?</i>	Yes
Instructional Activity #(2)	
Purpose of Activity	To clarify the physiological basis of plants.
Estimated Time:	15 minutes
Organization of Students - Student will work in:	groups
Teaching Strategy	Inquiry-based learning - brainstorming
Specific concept and/or skill addressed	physiological basis of plants.
Description of Activity	A pea is placed in water and its size is observed.
Connections to Capstone, Grand Challenge, other subjects
Formative Assessment During Learning:	Monitoring students' interaction and directing them to the correct concepts.
<i>Do you have another instructional activity?</i>	Yes
Instructional Activity (3)	
Purpose of Activity	To describe the structural components of the support in plants.

Estimated Time:	20 min
Organization of Students - Student will work in:	In groups
Teaching Strategy	Collaboration and discussion
Specific concept and/or skill addressed	structural components
Description of Activity	Cellular walls are analyzed using models or photographs.
Connections to Capstone, Grand Challenge, other subjects
Formative Assessment During Learning:	Providing feedback on the accuracy of students' analysis.
<i>Do you have another instructional activity?</i>	Yes
Instructional Activity #(4)	
Purpose of Activity	Explain the importance of support in plant growth
Estimated Time:	10 minute
Organization of Students - Student will work in:	in groups
Teaching Strategy	Collaboration and discussion
Specific concept and/or skill addressed	support in plant growth
Description of Activity	Discuss the importance of the support in the plant life cycle.
Connections to Capstone, Grand Challenge, other subjects	
Formative Assessment During Learning:
<i>Do you have another instructional activity?</i>	no
Evaluation of Evidence:	
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Homework:	
1. Write a brief definition of plant support and its importance in plant growth.	

Teacher Notes and Reflections:
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Samples of Student Work (Exceeds Expectations, Proficient, Needs Work):