

Lesson Plan for College of Education, STEM Department

Date & Time Created:	Monday Mar25 2024		
Date & Time Modified:	Monday Mar25 2024		
Subject	Chemistry	Chemistry and measurments	
Grade	10		
Teacher:	Yasmine Mohamed	School	STEM ASSUIT
Learning Outcome			
LO Code	BL.2.12	LO text	Chemistry Science Center, Chemistry and Measurement
Concepts		Skills	
<ul style="list-style-type: none"> Meaning of science Meaning of chemistry Fields of chemistry Branches of chemistry 		<p>Recognizing the importance of chemistry in our lives and knowing the fields of chemistry</p> <p>Find out how chemistry began to be used in ancient times</p> <p>Knowing the different branches of chemistry and what each branch discusses</p>	
Duration of Learning Outcome			
BL.2.12 (Week 1)			
Evidence of Learning Outcome			
<p>Quiz:</p> <p>https://docs.google.com/forms/d/e/1FAIpQLSdrsSzSiRbelWL5cAjO7GU1BxY4GitVDTx5QjQHGHYHUGEBTNA/viewform</p> <p>https://nwarny.com/test/821/</p>			
Capstone Connection			
How does the industrial base affect evolution?			
Textbook & Resource Material			
https://w1.mtsu.edu/chemistry/chem1010/pdfs/Chapter%201Chemistry%20and%20Measurement.pdf .			
Essential Question/s			
<p>What is the science of chemistry?</p> <p>What are the fields of chemistry?</p> <p>What are the branches of chemistry?</p>			
Objective/s for Lesson			

Students will be able to

- 1) describe the field of chemistry and its area of study,
- 2) identify chemistry as a physical science and recall the other physical sciences,
- 3) describe the interdisciplinary nature of chemistry with the other sciences,
- 4) identify from specific examples which other science overlaps with chemistry,
- 5) identify and describe the different branches of chemistry.

Evidence of Achievement of Lesson

<https://docs.google.com/forms/d/e/1FAIpQLSdrszSiRbelWL5cAjO7GU1BxY4GltVDTx5QjQHGHYHUGEBTNA/viewform>

Instructional Activity #(1)

Purpose of Activity	attracting attentions to the topic
Estimated Time:	5 Min
Organization of Students - Student will work in:	Individually
Teaching Strategy	Think-pair-share
Specific concept and/or skill addressed	Meaning of chemistry
Description of Activity	At the beginning of the class, the teacher asks the students a question to attract and arouse their attention (What is chemistry and why is it considered a science center?) during activity the teacher The teacher makes the student think alone first, then with a friend, and then the student discusses in front of the class and his classmates. After the time is up, the teacher discusses the answer with them.
Connections to Capstone, Grand Challenge, other subjects	No connection
Formative Assessment During Learning:	Students answer to the question shown

Instructional Activity #(2)

Purpose of Activity	attracting attentions to the topic
Estimated Time:	10 Min
Organization of Students - Student will work in:	Group
Teaching Strategy	Cooperative learning
Specific concept and/or skill addressed	Find out how chemistry began to be used in ancient times
Description of Activity	The teacher displays a picture on the display screen that shows the shape of the ancient Egyptians and asks a question: (What is the relationship of this picture to the topic of our lesson today, the relationship of the ancient Egyptians to chemistry) and makes them think together in groups.
Connections to Capstone, Grand Challenge, other subjects	No connection
Formative Assessment During Learning:	

Instructional Activity #(3)

Purpose of Activity	attracting attentions to the topic
Estimated Time:	10 Min
Organization of Students Student will work in:	Group
Teaching Strategy	Role playing
Specific concept and/or skill addressed	Branches of chemistry
Description of Activity	Divide the students into five groups and give each group a branch of chemistry and have them collect information about this branch and its meaning. After the time is up, Students play the role of the teacher and present their findings to the class.
Connections to Capstone, Grand Challenge, other subjects	No connection
Formative Assessment During Learning:	Good presentation of the information obtained

