

Career Corps

Lesson Plan Template

Course Title: AP Calculus & Pre-Calculus

Total Duration: Throughout school year 2021 – 2022

Course Number:

Overview Annotation: Career Opportunities:

Essential Question:

Background/Preparation: For a person to be successful at McLeod Software Company is perseverance. There are only a few jobs that require a college degree. Most of the employees either have a college degree or equivalent work experience.

Course Standards	Correlation to Alabama COS
<ul style="list-style-type: none">• developing the ability to read and understand mathematical language and representations• using mathematical language and representations to communicate problems and solutions• using mathematics in a range of contexts.• Use mathematical and statistical reasoning with quantitative data, both univariate data (set of values) and bivariate data (set of pairs of values) that suggest a linear association, in order to draw conclusions and assess risk• Use mathematical and statistical reasoning with bivariate categorical data in order to draw conclusions and assess risk.• The ability to use mathematical and statistical reasoning to address practical, civic, professional, recreational, and cultural issues.	N.Q.1 Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.
Learning Targets	
<ol style="list-style-type: none">1. My students will learn to write with clear and to the point sentences when working with real-world math application problems.2. My students will identify and justify my thinking in determining polynomial functions.3. My students will write appropriate equations in explicit, implicit, and parametric form.4. My students will communicate clearly and explains reasoning so others can follow how a problem is solved.5. My students will reason mathematically to solve problems using patterns and models in both a pure and applied context.	

Varied Learning Activities Procedures/Activities Safety Instructions	Materials/Equipment Technology Resources		Assessment Strategies	
<p>Varied Learning Activities:</p> <p>1. Write your own real-world application problem. Come up with the real answer and at least 4 other possible answers. Why is your answer write and what is wrong about the other answers?</p> <p>2. Perform a gallery walk. Post the problems around the room. Have the students walk around answer the questions and maybe leaving some helpful critiques.</p> <p>3. Keep a math journal about the different objectives taught. What is a strength is this area? What is a weakness in this area? What is something you can teach someone else?</p> <p>Procedures/Activities:</p> <p>After teaching a few lessons within the unit using one of the above activities to check their comprehension.</p> <p>Safety Instructions:</p>	X	Textbook(s)	X	Check Homework
	X	Printer/Copier	X	Test/Quiz
	X	Workbook/Handouts	X	Project
	X	Internet	X	Participation
	X	Computers	X	Classwork
	X	Microsoft Office Software	X	Review
		Newspaper/Magazines	X	Presentation
	X	LCD Projector	X	Oral Responses
	X	Scanner	X	Teacher Observation
	X	Digital Camera	X	Demonstration
		VCR/DVD Player	X	Peer Evaluation
		Television		Other:
		Other		Other:
Lesson Evaluation/Notation for Lesson Enhancement	Remediation and Accommodations Provisions for Individual Differences		Integrated Curriculum	
I will use all of the assessment strategies listed above and for the students that are more advance. I would give them the task of writing a multi-step application problem. For those who are struggling, I would allow them to give more of a simple application problem to write or allow them to work some teacher made problems.	X	Extended Time	X	Employability Skills
		Preferential Seating	X	Problem Solving Skills
	X	Testing Accommodations	X	Management Skills
	X	Copy of Teacher Notes	X	High-Order Reasoning Skills
	X	Extended Assignment Length	X	Work Ethic
			X	Integrated CTSO Experience
Teamwork Activities			Academics: M S R W SS CS	
I will also switch the problems from one class to the other and form groups with specific details assign to each member.		Modification Enhancement Remediation		
Career Readiness Indicators (CRIs) / Industry Credentials		Communication Peer Tutoring Other		
The above activities will prepare students for any form of workplace or college.		Communication Peer Tutoring Other		

I authorize The Shelby County Chamber and 581NC to publicize this lesson plan on their public webpage and distribute it as they see fit.

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