## **Math-in-CTE Lesson Plan Template**

Time Management		Lesson #
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Culinary Arts		
Mise en place, timing		
Reading a clock, computation with time		
SWBAT plan and and coording their responsibilities and time order to accurately production for timely service		
	Sarah McDonald  Emily Dittmann Culinary Arts  Mise en place, timing  Reading a clock, computation with time  SWBAT plan and and coording their responsibilities and time order to accurately	Phone Number(s):  Sarah McDonald  207-443- 8250 Ext 1133  Emily Dittmann  Culinary Arts  Mise en place, timing  Reading a clock, computation with time  SWBAT plan and and coordi their responsibilities and time order to accurately

The "7 Elements"	Teacher Notes
The 7 Liements	(and answer key)
ice the CTE lesson. ing important in a restaurant?	If students are stuck, jog their memory by asking them what s the challenges have been regarding running a cafe.
pens if a customer orders the pastry of the day, and a good no one remembered to cook off the bacon?	Instructor can also prompt students to discuss the challer timing (sharing equipment, customer satisfaction, preparatio

	en place- timing affects many aspects of running a restaurant
s students' math awareness as it relates to the CTE.  ry muffins take 20 minutes to bake, and must cool for 5 efore they can be removed from the pan, and you need the be ready for 9 am service, what is the latest you can put the the oven?	Instructor can ask students several questions related to le cooking time and when the product is needed. Instruct change the questions based on what they are teaching.  Instructor can prompt students to see if they know how to sand add time.  This step can be done as a warm up activity before element 1
hrough the math example embedded in the CTE lesson.  would need to bake the following items in order to have them an service? How long does the item take to bake? Does it bol in the pan? Should it be cool, room temperature, or warm??	Students will work through several examples of timing and caf production. For this lesson, the students will discuss recipes for breakfast cafe. Instructors can use any recipes they see fit, for textbooks or their own sources. Examples of recipes for a breakfast could be found on the following internet sites.  muffins: <a href="http://www.cdkitchen.com/recipes/recs/1225/Raspberry-Scream-Muffins95869.shtml">http://www.cdkitchen.com/recipes/recs/1225/Raspberry-Scream-Muffins95869.shtml</a> fruit salad: <a href="http://www.foodnetwork.com/recipes/ina-garten/fresh-fruit-salad-with-honey-vanilla-yogurt-recipe/index.html">http://www.foodnetwork.com/recipes/ina-garten/fresh-fruit-salad-with-honey-vanilla-yogurt-recipe/index.html</a> bread: <a href="http://www.kingarthurflour.com/recipes/english-mutoasting-bread-recipe">http://www.kingarthurflour.com/recipes/english-mutoasting-bread-recipe</a> pancakes: <a href="http://www.kingarthurflour.com/recipes/simply-perfect-pancakes-recipe">http://www.kingarthurflour.com/recipes/simply-perfect-pancakes-recipe</a> crepes: <a href="http://www.foodnetwork.com/recipes/alton-brown/crepes-recipe/index.html">http://www.foodnetwork.com/recipes/alton-brown/crepes-recipe/index.html</a> smoothies: <a href="http://allrecipes.com/recipe/basic-fruit-smoothiegg-gasandwich">http://allrecipes.com/recipe/basic-fruit-smoothiegg-gasandwich</a> :

	http://www.epicurious.com/recipes/food/views/All-Day-Breakfast-Sandwich-232645
	Instructor will give students recipes to read through and discustime, bake time, and other factors influencing service.
	This step can be completed as a discussion, or the instructor have students write out their answers.
hrough related, contextual math-in-CTE examples.  bu needed to bake and decorate the following cake for lunch ce, 12pm on Wednesday? When would you need to complete he steps? (Mise en place, bake the cake, make frosting,	Instructor hands all the students a recipe for a cake and instr for how it is to be decorated. Instructors can use a recipe fro textbook. An example of a recipe could be:
the cake, decorate the cake)	Students need to read the recipe and figure out when each needs to be completed in order for the cake to be ready for call
	Instructor will model using the time chart to show what part process needs to be done at what time.
	Sample cake recipe:
	http://www.kingarthurflour.com/recipes/three-easy-step-chocolate-peanut-butter-cake-recipe
nrough <i>traditional math</i> examples.	Use worksheet 1 to go over traditional math examples.
ok at this worksheet. Use addition and subtraction to figure rious times on the sheet.	Use <a href="http://www.aids.com/Time/Time_Worksheets_Adding.html">http://www.aids.com/Time/Time_Worksheets_Adding.html</a>
	to create additional worksheets.
	Hand each student a recipe (see previous examples) and wo
ts demonstrate their understanding.	2 to keep track of the time. After they have completed the

sheet to write down what the clock says at each step of the ee me when you are finished for the next step.	where they can chart what they were doing at 10 minute in They should complete the chart and clean up their station.
complete the recipe, and write down the time and each the process. When they are done making the recipe, they e instructor for a chart to graph their process)	
assessment.	Students will work together to complete a plan for preparing

e together as a group and write a plan for having all of these dy for cafe next Tuesday. Look at each others charts and e to coordinate the use of equipment. Also, don't forget the is we need to prep for cafe (roll silver, set the front of the c)

Students will work together to complete a plan for preparing cafe. Ideally, they will use this plan the following week preparation for the cafe. Ideally, the students will reflect on he plan went, if they allowed enough time for each step, etc.