

Contextualized Learning Activities (CLAs)

For the “other required credits” in the bundle of credits, students in a Specialist High Skills Major program must complete learning activities that are contextualized to the knowledge and skills relevant to the economic sector of the SHSM. Contextualized learning activities (CLAs) address curriculum expectations in these courses.

***This CLA has been created by teachers for teachers.
It has not undergone an approval process by the Ministry of Education.***

Contact Information	
Board	Upper Grand District School Board
Development date	June 2008
Contact person	Diane Leach
Position	Department Head of English
Phone	519-821-4510 ext 402
Fax	
E-mail	diane.leach@ugdsb.on.ca

Specialist High Skills Major	Hospitality and Tourism
Course code and course title	MEL 3E Mathematics for Work and Everyday Life
Name of contextualized learning activity/activities	Mathematics for the High Skills Major
Brief description of contextualized learning activity/activities	There are a series of activities related to the hospitality industry that require the use of math and numeracy skills.

Duration	6 hours
Overall expectations	<p>A1 Interpret information about different types of remuneration, and solve problems and make decisions involving different remuneration methods</p> <p>A3 Demonstrate an understanding of the factors and methods involved in making and justifying informed purchasing decisions</p>
Specific expectations	<p>Gather, interpret, and describe information about different remunerations methods (e.g., hourly rate, overtime rate, job or project rate, commission, salary, gratuities) and remunerations schedules (e.g., weekly, bi-weekly, semi monthly, monthly)</p> <p>Make the correct change from an amount offered to pay a charge, using currency manipulatives</p> <p>Compare the unit prices of related items to help determine the best buy</p>
Catholic graduate expectations (if applicable)	
Essential Skills and work habits	

Instructional/Assessment Strategies**Teacher's notes**

These assignments are designed with student independence in mind. Reading the materials, answering the questions and completing the tasks are the skills required to complete this unit.

Context

Students will complete the assignments that require foundational math skills. The content is workplace related.

Strategies**Assessment and Evaluation of Student Achievement**

Strategies/Tasks	Purpose
1. Assignment- Hourly Rate/Overtime	Formative
2. Assignment Two – Wages and Purchases	Formative
3. Assignment Three - Restaurant Math	Assessed
Assessment tools	

Additional Notes/Comments/Explanations

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Resources

Authentic workplace materials
Human resources Instructor
Print Handouts
Video
Software
Websites
Other

Accommodations

Students can have the material read to them, examples or explanations given to clarify confusion. Students can use a calculator to assist.

List of Attachments

See following handouts

ASSIGNMENT ONE**WAGES****Hourly Wages and Overtime**

The owner of the Happy Times Family Restaurant pays his staff with an *hourly rate*. This means that the employee makes a certain amount of money for each hour they have worked. In Ontario, most employers give *time and a half* once employees have worked more than 44 hours in a week but this can vary. Time and a half is 1.5 times the hourly rate.

Complete the following chart to show how much money each employee will receive.

Name	Hours Worked	Regular Hourly Rate	Regular Hours	Regular Earnings	Overtime Hours	Overtime Rate	Overtime Earnings	Weekly Earnings
Corey	45	9.50	40	380.00	5	14.25	71.25	421.25
Tyler	48	10.15	40		8			
Jessica	42.5		40	425.00	2.5			
Nathaniel	40.5		37.5		3	15.00	45.00	
Kaylee	44	10.95			4			503.7
Tamara		8.95	40		5			
Ashley	43		38			17.25		

SALARY

Another way that employers can choose to pay their employees is by *salary*. This means that the employee makes a certain amount of money *annually* (each year). This money is given to the employee weekly, bi-weekly or monthly. The following chefs all work at different restaurants and receive different salaries based on their experience and talent.

Complete the following chart to show how much money each chef receives. Remember there are 52 weeks in a year and 12 months in a year.

Name	Annual Salary	Weekly Earnings	Monthly Earnings
Chef Pete	\$40 000		
Chef Shawn	\$60 000		
Chef Lori	\$52 000		
Chef Marna	\$45 000		
Chef Shannon	\$51 000		
Chef Charles	\$48 000		
Chef Franco	\$55 000		

Now determine the annual salary for the following chefs given the information in the chart.

Name	Annual Salary	Weekly Earnings	Monthly Earnings
Chef Michelle		\$810	
Chef Ronaldo			\$5000
Chef Douglas		\$1200	
Chef Riley			\$6000
Chef Chloe	\$45 500		
Chef Donna		\$1500	
Chef Jeff			\$4000

ASSIGNMENT TWO

WAGES AND PURCHASES

A local restaurant is hiring waiters and line cooks. Waiters will make \$8.00 an hour and line cooks will make \$8.25. Employees will work 8 hour shifts. The restaurant usually does \$100.00 worth of sales per hour. Waiters will get between a 10-15% as a tip of the sales.

Answer the following questions about this restaurant and its employees.

1. Patrick is hired as a waiter. How much money will he make in an eight hour shift?
2. Teresa is hired as a line cook. How much money will she make in an eight hour shift?
3. If Patrick made a 10% tip on \$100 how much money will he make?
4. If the restaurant did \$100 worth of sales each hour for eight hours, how much would Patrick make if with a 10% tip?
5. Which job would be better to have—waiter or line cook—in your opinion? Answer in a complete paragraph with three supporting details.

Below is a copy of the menu at the restaurant where Patrick and Teresa work.
Answer the questions that follow.

The Breakfast Restaurant

Breakfast served daily from 7:00am - 2:00pm

(One free Coffee/Tea refill with all Breakfasts)

--The Special--

**3 strips of Bacon (or 2 pieces of Ham or 3 Sausages),
and 2 large eggs with Homefries and Toast**
\$4.50

--The Classic--

**3 strips of Bacon (or 2 pieces of Ham or 3 Sausages),
2 large eggs and Toast**
\$3.85

--Peameal Special--

Peameal Bacon and 2 eggs with Homefries and Toast
\$5.50

--Chef Special--

1 egg, 3 strips of Bacon and 1 pancake with Toast
\$5.25

--Hungry Man Special--

**2 strips of Bacon, 2 pieces of Ham,
2 Sausages, and 3 eggs
with Homefries and Toast**
\$8.00

--Steak and Eggs

Steak and 2 eggs with Homefries and Toast
\$6.99

--From the Griddle--

3 Pancakes (or 3 slices French Toast) \$3.85
with 3 strips of Bacon (or 2 pieces of Ham or 3 Sausages) \$4.99

Toasted Fried Egg Sandwich **(bacon, lettuce, tomato)** \$3.85

Toasted Western **(one egg, ham, onion) with Homefries** \$3.85

--Our Omelettes--

(Made with 3 Large Eggs and served with Homefries and Toast)

Greek (feta, onion, tomato)

3 Item Veggie (choices: mushrooms, onion, tomato, green pepper)

Western (onion, ham)

Cheddar Cheese (mushrooms, tomato)

\$6.50

--Extra Items--

Bacon, Ham, Sausage \$1.50

Homefries \$2.00

Peameal Bacon \$2.99

Cheese \$1.00

Slices of Tomato \$1.50

Extra Onion \$0.75

Toast \$1.25

--Kids Breakfast--

(ages 10 and under)

One egg, one sausage served with homefries, toast, juice or milk

\$3.85

--Beverages--

Coffee or Tea \$1.00

Earl Grey \$2.00

Green Tea \$2.00

Hot Chocolate \$1.50

with whipped cream \$2.25

Juice \$1.50 (small); \$1.90 (large)
(Orange, Apple, Cranberry, Fruit Cocktail)

Tomato Juice \$1.50 (small); \$1.95 (large)

Milk \$1.50 (small); \$1.90 (large)

Chocolate Milk \$1.50 (small); \$1.95 (large)

--Taxes Not Included--

ASSIGNMENT THREE

RESTAURANT MATH

1. If Sherry came into the restaurant for breakfast with her two small children, how much might she pay for a meal? List the choices she may have made and how much the total would be.
2. If taxes are 13%, how much would Sherry's bill be with tax?
3. If Sherry tips 10%, how much would her bill then be?
4. If you were to go the restaurant yourself, how much would your meal cost including tax and tip.
5. Choose a meal that would cost less than \$15.00 including tax and tip for 2 very hungry people.
6. If Teresa the cook in the previous exercise were to take Patrick to breakfast, how long would she have to work to pay for the following order: Hungry Man Special, Steak and Eggs, Earl Grey tea, tomato juice?