

## **Consumer Math CP Unit 1: Nutrition**

Unit #:	APSDO-00020121	Duration:	5.0 Week(s)	Date(s):				
Team:         Andrew Riddle (Author), Jeanine LaBrosse, Jaclyn Lawlor, Melinda Litke, Jennifer Miller         Grades:         11, 12         Subjects:         Mathematics								
Unit Focus								
In this unit, students will use percents to analyze nutritional facts to make healthy food choices. Students will also use unit analysis to make different quantities of recipes and decide best buys between consumer products. Students will make cost comparisons based on unit prices. Summative assessments may include projects, labs and tests.								
Stage 1: Desired Results - Key Understandings								
Established Goals Transfer								
Est	tablished Goals		Trar	nsfer				
Est Common Core Mathematics: 1 • Create ed variable a Include e quadratic and expo CCSS.MA • Use units	tablished Goals 22 quations and inequalities in one and use them to solve problems. quations arising from linear and c functions, and simple rational onential functions. <i>TH.CONTENT.HSA.CED.A.1</i> as a way to understand	T1 (T50) Bas the reasonab T2 (T53) Arti problem or in T3 (T51) Exa T4 (T52) Use concepts. T5 (T13) Mov T6 (T14) Perf	<b>Tran</b> ed on an understanding of any pro- leness of the solution. culate how mathematical concept of the theoretical sense. mine alternate methods to accura appropriate tools strategically to we from one representation to ano form operations within the real an	<b>nsfer</b> oblem, initiate a s relate to one a ntely and efficien deepen underst ther without cha d complex numb	plan, execute it and evaluate nother in the context of a tly solve problems. anding of mathematical nging the quantity. per system.			
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Est Common Core Mathematics: 1 • Create ed variable a Include e quadratic and expo <i>CCSS.MA</i> • Use units problems multi-ste interpret choose a	tablished Goals quations and inequalities in one and use them to solve problems. quations arising from linear and functions, and simple rational onential functions. <i>TH.CONTENT.HSA.CED.A.1</i> as a way to understand and to guide the solution of p problems; choose and units consistently in formulas; nd interpret the scale and the	T1 (T50) Bas the reasonab T2 (T53) Arti problem or in T3 (T51) Exa T4 (T52) Use concepts. T5 (T13) Mov T6 (T14) Perf	Tran ed on an understanding of any pro- leness of the solution. culate how mathematical concept of the theoretical sense. mine alternate methods to accura appropriate tools strategically to be from one representation to ano form operations within the real an Mea Jnderstandings	nsfer oblem, initiate a s relate to one a ntely and efficien deepen underst ther without cha d complex numb ning Esse	plan, execute it and evaluate nother in the context of a tly solve problems. anding of mathematical nging the quantity. ber system.			

<ul> <li>Variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. <i>CCSS.MATH.CONTENT.HSA.CED.A.2</i></li> <li>Define appropriate quantities for the purpose of descriptive modeling. <i>CCSS.MATH.CONTENT.HSN.Q.A.2</i></li> <li>Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</li> </ul>	<ul> <li>U2 (0512) Mathematicians use diagrams, symbols, and terms to describe problems or situations</li> <li>U3 (0540) The choice of a mathematical tool depends upon the information you have and the information you want.</li> <li>U4 (0103) The same value can be represented in multiple ways.</li> <li>U5 (0104) Mathematics is a universal language that uses assumed and logical</li> </ul>	<b>Q3</b> (Q103) What is the value of this number/relationship and how can I represent it in different ways? <b>Q4</b> (Q104) How do I use my number sense to perform operations?	
<ul> <li>Reason abstractly and quantitatively. <i>CCSS.MATH.MP.2</i></li> <li>Use appropriate tools strategically. <i>CCSS.MATH.MP.5</i></li> </ul>	Acquisition of Knowledge and Skill       Knowledge     Skills		

Knowledge	Skills
	S1
	Convert between percent, ratio and decimal
	S2
	Calculate calories from fat, protein, and carbohydrates
	S3
	Effectively interpret nutritional labels
	S4
	Use percents to calculate how much a consumer saves
	S5
	Use unit analysis to compare best buys
	S6
	Using percents and unit analysis to make healthy food choices for eating out
	S7

				Find and use applications that support nutritional analysis		
Stage 3: Learning Plan						
Coding	Code	Description of Learning Activity				