"Math: Converting from one unit to another"   OSEU 7: Way of Life & Development						
Compelling Question	How can one type of unit of measure be converted to another unit of measure?					
Standards and Practices	South Dakota Common Core State Standards for Mathematics. Practice 1: Make sense of problems an persevere in solving them. Practice 2: Reason abstractly and quantitatively. Practice 4: Model with mathematics. Practice 6: Attend to precision. Practice 7: Look for and make use of structure. Practice 8: Look for and express regularity in repeated reasoning.					
Staging the Question	How can we convert a length of time like a "Moon" in Native American terminology to another unit of time like days?					
Supporting Question 1		Supporting Question 2	Supporting Question 3			
How can we compare an amount of one unit to an equal amount of another?		How do we change from one type of unit to another type of unit without destroying the initial value?	Can we use a model to convert any unit value to any other unit value?			
Formative Performance Task		Formative Performance Task	Formative Performance Task			
<ol> <li>Steps for solving a conversion problem:         <ol> <li>Determine the given units and the units we want to find. Will it take one step or many?</li> <li>State the equivalent units such as "one Native American 'moon' equals 28 days. 1 moon = 28 days</li> <li>Divide the equivalent values by each other to get a quotient of 1. 1 moon/28 days = 1 or 28 days = 1 moon</li> <li>Multiply the given unit value by the division problem so that the given units cancel out and the wanted units remain. Ex. Convert 168 days to moons 168 days X 28 days/1 moon = 6 moons</li> </ol> </li> </ol>		Convert 10 cups drinking water to gallons. Step 1: Given units (10 cups). Wanted units (gallons). Step 2: 1 gallon = 16 cups Step 3: 1 gal/16 cups or 16 cups/1 gal Step 4: 10 cups X 1 gal/16 cups = .625 Gallons	Write the 4 steps to solving unit conversion problems. Step 1: Given units and wanted unit Step 2: State equivalent units Step 3: Divide equivalent values by each other to get a quotient of 1. Step 4: Multiply the given units by the division problem that will cancel given units and leave the wanted units.			
Featured Sources		Featured Sources	Featured Sources			
<i>GO MATH</i> Grade 6 (2015) , pg 315-332 by Houghton Mifflin Harcourt		Prentice Hall "Physical Science Concepts in Action With Earth and				

Publishing Company. Authors: Juli K. Dixon, Matthew R. Larson, Edward B. Burger, Martha E. Sandoval-Martinez, Steven J. Leinwand (ISBN 987-0-544- 43281-9).		Juli K. vard B. ortinez, -544-	<i>Space Science</i> " Wysession, Frank, Yancopoulos. <i>pg 18, 196-198</i> . ISBN 0- 13-166308-9		
Summative	Argument	State the steps to calculating a conversion problem.			
Performance Task	Extension	Calculate a conversion from 3520 yards to miles using the 4 conversion steps discussed in this lesson. (1760 yards = 1 mile)			
Taking Informed Action	Create and solve a conversion problem.				