SIze Matters

Lesson Segment Focus: Convert like measurement units within a given measurement system Lesson 1 of 1

Course & topic addressed: Math, Measurements and Data Date: 4-15-19 Grade: 5th

Student Outcomes

Specific learning objectives for this lesson.	Students will convert among different-sized standard measurement units within the metric system. Students will convert among different-sized standard measurement units within the customary system. Students will use these conversions in solving multi-step, real world problems.
Describe the connection to previous lessons. (Prior knowledge of students this builds upon)	Students have already completed lessons with fractions and measurements in cake baking. They've studied decimals and have learned about LCD. They know about converting one thing to another.
Knowledge of students background (personal, cultural, or community assets)	Students have seen measurements in the kitchen for years. They know most of the US measurement systems and have probably experienced the SI System before. This system may confuse them.

State Academic Content Standards

List the state academic content standards with which this lesson is aligned. Include state abbreviation and number & text of the standard.	
	• Convert among different-sized standard measurement units within the
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	customary system For example: Convert 1 1/2 ft to 18 in.
	• Use these conversions in solving multi-step, real world problems

Academic Language Support

What planned instructional supports might you use to assist	Students will have youtube, conversions sheets, and group help to navigate
students to understand key academic language to express and	the new content. The teacher will explain each term and will be nearby to help
develop their content learning?	groups with any misunderstandings they have. Student may get word
What will you do to provide varying supports for students at	problems that are geared towards different academic levels of language
different levels of academic language development?	acquisition.

Key Vocabulary

What vocabulary terms/content specific terminology must be addressed for students to master the lesson?	SI System, customary system, English system, conversion
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Materials

Materials needed by teacher for this lesson .	Computer, smart board, internet, conversion sheets, blank conversion sheets, measurement tools for each table, pens, scratch paper, exit slips, PowerPoint quiz, handout, YouTube
Materials needed by students for this lesson .	Computer, internet, conversion sheets, blank conversion sheets, measurement tools, pens, scratch paper, exit slips, handout

Lesson Timeline with Instructional Strategies & Learning Tasks (This should be VERY DETAILED)

Amount of Time	Teaching & Learning Activities	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this part of the lesson.
	Introduction:	
7 minutes	Students will enter and sit in their work groups (of 4).	Students will come in and watch two videos. (<u>https://youtu.be/djTNUp4XIRo</u> & <u>https://youtu.be/</u> <u>P9sYvDCnI0g</u>)
	Instruction:	
20 minutes	The students will experiment with English units of measurement.	Students will each get blank conversion sheets. Students will fill out this sheet by working with their group to determine what kinds of measurements are equal. There will be different tools of measurement on the tables to measure with (cups, gallons, pints, ounces, 1/2 cups, inches, feet, yards, ect.). Students will find conversions like that 8 ounces equals 1 cup.
20 minutes	Students will explore the SI Unit.	Students will receive filled in conversion charts and compare them. Students will study the way the SI system works and do conversions as a class. Groups will work together to solve real word conversion problems on a handout.
10 minutes	Interactive Quiz	Students will play an interactive PowerPoint Quiz to test their new skills.
9 minutos	Closure:	
8 minutes	Exit slip	Students will each complete a paper with a conversion between each of the measurement systems.

How might I modify instruction for:	Small group intervention can be done in group time. More explanation and more detailed charts can be provided. All IEP and 504 plans will be followed. ESL students will be partnered with a peer with high levels of
Remediation?	language acquisition.
Intervention?	
IEP/504?	
LEP/ESL?	

Differentiation:		
How might you provide a variety of instructional methods/tasks/instructional strategies to ensure all student needs are met?	Students do a hands on lab, watch videos, work with groups, do handouts, and participate in interactive quizzes. There are a variety of tasks and instructional methods used in this lesson.	

Assessments: Formative and/or Summative

Describe the tools/procedures that will be used in this lesson to monitor students'	✓ Formative /□ Summative	Teacher will assess the conversion sheet.
learning of the lesson objective/s (include type of assessment & what is assessed).	✓ Formative /□ Summative	The teacher will grade the handouts.
	✓ Formative /□ Summative	The teacher will assess the exit slips.

Research/Theory

Identify theories or research that supports the approach you used.	N/A
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Lesson Reflection/Evaluation		
What went well? What changes should be made? How will I use assessment data for next steps?	<i>TO BE FILLED IN AFTER TEACHING</i> N/A	

Include supporting material such as slides, pictures, copy of textbook, and handouts for any activities students will be using as part of your lesson.

*adapted from: http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-

LessonPlan.doc+&cd=2&hl=en&ct=clnk&gl=us; http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx; http://www.moreese.edu/f/c/ 9cb690d2/Lesson%20Plan%20Rubric%20Aligned%20with%20InTASC.docx;https://www.uwsp.edu/education/Documents/edTPA/Resource12.pdf; https://www.uwsp.edu/education/Documents/edTPA/ Resource11.pdf; https://www.uwsp.edu/education/Documents/edTPA/Resource11a.pdf; https://www.uwsp.edu/education/Documents/edTPA/LessonPlanTemplateSOE.docx; https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplateSOE.docx; https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplate.docx