# **Lesson Plan**

# Learning Segment Focus: Properties of Operations Lesson: 1 of 4

# Course & topic addressed: Math, Expressions and Equations Date: 02/04/2020 Grade: 6<sup>th</sup>

#### **Student Outcomes**

Students will learn how to write equivalent equations using the different properties of operations.
Students will learn that the operations they have learned in the past will help in forming equivalent
equations out of the same equation.
All classrooms have a variety of races, there are white, black, hispanic, Asian, and many others. The
task presented is not out of reach for any student. There will be resources available for those
students that are not English first students.

### **State Academic Content Standards**

List the state academic content	AR.Math.Content.6.EE.A.3: Apply the properties of operations to generate equivalent
standards with which this lesson is	expressions
aligned. Include abbreviation, number &	
text of the standard(s).	

# **Key Vocabulary**

What vocabulary terms/content specific	Commutative property, Associative property, Distributive property, Density
terminology must be addressed for	property, Identity property
students to master the content?	

### Academic Language Support

What are the Academic Language Function(s) (the content	Students will be able to explain the different properties of operations
and language focus of the learning task represented by the	in math and be able to justify their answers to equations that they
active verbs within the learning objectives/outcomes) and	work out.
explain how they are utilized in the lesson plan?	I will be using the inspiration presentation to present definitions to
What planned Academic Language Supports will you use to	the students and giving them examples for them to direct themselves
assist students in their understanding of key academic	to evaluate themselves on the worksheet. I will also be using groups
language to express and develop their content learning and to	as another language support.
provide varying supports for students at different levels of	The inspiration presentation will give them the resources they need to
Academic Language development? How do these supports	cover the vocabulary portion of the lesson. The presentation will also
address all three Academic Language Demands	give them a form of organization to cover syntax. The group work
(vocabulary, syntax, and discourse)?	will address the discourse portion of demands.

#### Materials

Materials needed by teacher for this lesson. (such as books,	Computer, white board, marker, projector, Example sheet
writing materials, computers, models, colored paper, etc.)	
Materials needed by students for this lesson. (computers,	Notebook, pencil, passed out example sheet
journals, textbook, etc.)	

Amount of Time	Teaching & Learning Activities (This should be a BULLETED LIST)	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this part of the lesson. (This should be VERY DETAILED)
5 Minutes	<ul> <li>Introduction:</li> <li>Refresher activity with the operations of math.</li> </ul>	I will be in front of the class asking what each operation is. I will ask the students to define each one and give an example of each. Students will be grouped up and will have to define one of the operations and give an example.
30 Minutes	<ul> <li>Inspiration presentation</li> <li>Group work</li> </ul>	I will be at the computer and the white board. As I define each vocabulary word, I will work out an example on the board. I will also be filling in the inspiration presentation as we go along. This presentation will also be available for students after class. I will pass out an example sheet to be filled in as we go through each vocabulary word. After I work an example out of each property, there will be a section of problems on the worksheet for them to calculate. Students will be at their groups and filling out their example sheet as I lecture in class. They will be allowed to ask questions within their groups, and if that does not answer their questions they are welcome to ask me for help.
5-7 minutes	Closing statements	I will be at the front of the class going over the definitions one more time and asking students if they have any questions. I will also be passing out a copy of the presentation for the students to keep. Students will ask questions as needed and fill in any blanks that they may have on their own papers.

## Lesson Timeline with Instructional Strategies & Learning Tasks

## Accommodations/Modifications

How might I <b>modify</b> instruction for:	During the group work time, I can have computers set up for those students that
Remediation?	are having trouble keeping up with me in class. For ESL students I can have a
Intervention?	similar lesson set up on the computer using their primary language.
IEP/504?	
LEP/ESL?	
(All students who have plans mandated by	
federal and state law.)	

#### Differentiation

How might you provide a variety of	For those students that are struggling, I can hold after class instruction and offer
techniques (enhanced scaffolding, explicit	any assistance that they may need on the topic. On the presentation, there are
instruction, contextualized materials,	different colors used as well to separate the definitions and the examples.
highlighters/color coding, etc.) to ensure all	
student needs are met?	
(All students who are not on specific plans	
mandated by federal and state law.)	

#### Assessments: Formative and/or Summative

Describe the <b>tools/procedures</b> that will be	X Formative $/\Box$ Summative	Students working out the worksheet
used in this lesson to monitor students' learning of the lesson objective(s) (include	<b>x</b> Formative $/\Box$ Summative	Asking students to define the operations and give examples of each.
type of assessment & what is assessed).	$\Box$ Formative / $\Box$ Summative	

#### **Research/Theory**

Cognitivism s a learning theory developed by Jean Piaget in which a child
develops cognitive pathways in understanding and physical response to
experiences. This theory suggests that students learn most effectively from
reading text and lecture instruction.

#### Lesson Reflection/Evaluation

What went well?	TO BE FILLED IN AFTER TEACHING
What <b>changes</b> should be made?	
How will I use assessment data for next	
steps?	

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: <u>http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-LessonPlan.doc+&cd=2&hl=en&ct=clnk&gl=us; <u>http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx;</u></u>

http://www.mcneese.edu/f/c/9cb690d2/Lesson%20Plan%20Rubric%20Aligned%20with%20InTASC.docx;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/SpecEdLessonPlanGuide.docx;

https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplate.docx

