Lesson Plan Template

Learning Segment Focus - Mathematics: Solving one-step word problems using measurements while reading and interpreting a bar graph.

Lesson 2 of 2 - Topic – Bar Graphs and Measurements Date - 4/6/2021 Grade - 3

Student Outcomes	
Specific learning objectives for this lesson.	 Students will learn how to take measurements of different items within the same units. Students will learn how to read bar graphs and compare two or more graphs. Students will learn how to make a bar graph from given information. Students will learn how to solve one-step word problems by using graphs and measurements.
Justify how learning tasks are appropriate using examples of students' prior academic learning .	Students have already learned how to take measurements; they just need to know how to sort them in a graph and be able to read the graphs that are given to them. They also already know how to solve word problems with the given information as well, so they can put their new knowledge of reading graphs to the test.
Justify how learning tasks are appropriate using examples of students' personal, cultural, linguistic, or community assets	These are animals that students are most likely educated about and have seen before. They will understand the comparisons of size of the animals and be more involved with the charts because of the interesting animals.

State Academic Content Standards

List the state academic content standards with which this lesson is	AR.Math.Content.3.MD.A.2:
aligned. Include abbreviation, number & text of the standard(s).	Measure and estimate liquid volumes and masses of objects using standard units such as: grams (g), kilograms (kg), liters (I), gallons (gal), quarts (qt), pints (pt), and cups (c)
	Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units (e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem)
	Note: Conversions can be introduced but not assessed. Excludes compound units such as cubic centimeters and finding the geometric volume of a container. Excludes multiplicative comparison problems (problems involving notions of "times as much").

Key Vocabulary

What vocabulary terms/content	Addition
specific terminology must be	Subtraction
addressed for students to master the	Multiplication
content?	Division
	Graph
	Bar Graph
	X-Axis
	Y-Axis
	Unit

Academic Language Support

What are the Academic Language Function(s) (the	The functions are to help the students understand the math
content and language focus of the learning task	terms that others might use to ask these questions or mention
represented by the active verbs within the learning	these concepts. They are also included in important parts of a
objectives/outcomes) and explain how they are utilized	graph.
in the lesson plan?	
What planned Academic Language Supports will you	
use to assist students in their understanding of key	
academic language to express and develop their	
content learning and to provide varying supports for	
students at different levels of Academic Language	
development? How do these supports address all three	
Academic Language Demands (vocabulary, syntax,	
and discourse)?	

Materials

Materials needed by the teacher for this lesson.	Computer	
(such as books, writing materials, computers,	Word Problems examples	
models, colored paper, etc.)	Access to Microsoft	
	Microsoft Excel	
	Copy of worksheet	
Materials needed by students for this lesson.	Computer	
(computers, journals, textbook, etc.)	Knowledge of measurements, animals, and graphs	
	Microsoft Excel	
	Data	
	Word problem	
	Notebook (Paper)	
	Pencil	

Lesson Timeline with Instructional Strategies & Learning Tasks

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)
10 minutes	Introduction: Review how to take measurements with the same units of food.	I will review with my students how to take measurements of the same units and give examples for my students to work to make sure they know what to do.
20 minutes	Instruction: Actual lesson and explanation	I will then take an example that they understood and question them on how they would set up a graph. I will explain what they would need (ex. Title, x-axis, y-axis, labels, etc.) After they say their thoughts, I will show them how the correct way is to set it up. Then they will repeat with the data and where it makes sense to put it. I will then introduce example one-word problems like comparison or "how many

		more/less" problems they can solve using the example graph.
10 minutes	Closure: Assignment Instruction	After the students grasp this concept and learn these examples, I will give them their assignment of a work sheet with given data and problems to solve. They will then turn this in.

Technology Integration

Provide your rationale for your technology choices that accurately reflects those choices within your teaching context. Identify what technology(s) you are using as part of your lesson plan. Describe how the use of technology aligns to your learning objectives, content standards, and central focus. Explain how technology-based instructional strategies are essential to students accomplishing the learning objectives (beyond what could be accomplished without using the technology). Specify how the technology selections meet or exceed the needs/strengths of all students. Justify the "fit" of chosen technologies, showing how the content, instructional strategies, and technology "fit" together.	For this lesson, I will be using Microsoft Excel for technology integration. My students will read and develop excel sheets with Excel.
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Accommodations/Modifications

How might I modify instruction for:	I could use pictures and graphics that don't use spoken words, an ESL
Remediation?	teacher, a math specialist, and a Special Education teacher within the
Intervention?	classroom during this lesson to keep everyone learning and engaged with
IEP/504?	the lesson. I could also give the details of the lesson to other teachers to
LEP/ESL?	work individually with my students outside of this specific lesson.
(All students who have plans mandated	
by federal and state law.)	

Differentiation

How might you provide a variety of	Ask questions on what they don't understand, and ask how they would do
techniques (enhanced scaffolding,	it and make sure I accommodate what they think and relate it to what is
explicit instruction, contextualized	the correct way to imply this concept.
materials, 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 tools/procedures that will	\Box Formative / \Box Summative	Math Test
be used in this lesson to monitor	□ Formative /□ Summative	Worksheet after lesson that is turned in
objective(s) (include type of assessment	\Box Formative / \Box Summative	

& what is assessed).	

Research/Theory	
Explain connections to theories	
and/or research (as well as experts in	
the field or national organization	
positions) that support the approach	
you chose and justify your choices	
using principles of the connected	
theories and/or research.	

Lesson Reflection/Evaluation

changes should be made?	
will I use assessment data for	
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:

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.mcneese.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/SpecEdLessonPlanGuide.docx;

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