Name <u>Emery Steele</u> Lesson Plan Template

Learning Segment Focus Interpreting Data and Creating Line Graphs_____

Lesson	of	Topic Analyzing dat	ta from th	e cost of living in diffe	erent	cities and creating a
spreadsheet		Date		Grade	5	

Student Outcomes

Specific learning objectives for	Students will interpret data they are provided and submit into a spreadsheet. Students will analyze
this lesson.	the data to draw conclusions about which cities have the highest cost of living.
Justify how learning tasks are	Students will already know how to interpret graphs. They will also have an understanding of money
appropriate using examples of	and how to add and subtract various costs. They should also have experience using Microsoft Excel.
students' prior academic	
learning.	
Justify how learning tasks are	This lesson is in a small group setting which helps ESL and introverted students feel comfortable
appropriate using examples of	engaging in the lesson. This lesson is also easily adjustable to fit each student's needs based on their
students' personal, cultural,	abilities and background knowledge.
linguistic, or community	
assets.	

State Academic Content Standards

List the state academic content	AR.Math.Content.5.MD.B.2: Make a line plot to display a data set of measurements in		
standards with which this lesson is	fractions of a unit $(1/2, 1/4, 1/8)$		
aligned. Include abbreviation, number	• Use operations on fractions for this grade to solve problems involving		
& text of the standard(s).	information presented in line plots		
	• For example: Given different measurements of liquid in identical beakers,		
	find the amount of liquid each beaker would contain if the total amount in		
	all the beakers were redistributed equally. Given different measurements		
	of length between the longest and shortest pieces of rope in a collection,		
	find the length each piece of rope would measure if each rope's length		
	were redistributed equally or other examples that demonstrate measures		
	of center (mean, median, mode).		

Key Vocabulary

What vocabulary terms/content specific	Line plot
terminology must be addressed for	• Data
students to master the content?	• Graph
	Cost of Living
	Median

Academic Language Support

and a sublet	
What are the Academic Language Function(s) (the content	
and language focus of the learning task represented by the	Student must interpret and analyze in order to complete the lesson. I
active verbs within the learning objectives/outcomes) and	will create a word wall for students that includes visuals and cognates
explain how they are utilized in the lesson plan?	(or the Spanish equivalent of the word) along with the definitions for
What planned Academic Language Supports will you use	the vocabulary and discourse demands of academic language. Each
to assist students in their understanding of key academic	word will be used in a sentence on the word wall for the syntax
language to express and develop their content learning and to	demand of academic language.
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. (such as books, writing materials, computers, models, colored paper, etc.)	 Writing materials Computer with Excel Data of the costs of living of various cities (New York, Seattle, San Diego, Miami)
Materials needed by students for this lesson. (computers, journals, textbook, etc.)	 Writing materials Spreadsheet created by the teacher using Excel Data provided by the teacher Computer

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: I will explain the activity. I will model how to complete the assignments I will split students into groups and providing them with the materials they need. 	 I will first explain to the students we will be learning how to compare the costs of living from various cities using Excel spreadsheets. I will then model how to create a line graph using the data from a spreadsheet about Jonesboro's cost of living. Next, I will split the students into groups and provide them with the spreadsheets and the data they need to complete the assignment.
35 minutes	 Instruction: The students will complete a data chart in groups The students will evaluate the charts and answer questions about it The students will share their findings with the class 	 Once the students are in the groups, they will create a line graph of the data within their spreadsheet. After the graph is completed, the students will answer questions on a handout that will ask them to be able to interpret the data. Students will return to their seats and share the data with the class. As a class, we will create an overall comparison chart that we compile from the data they found.

5 minutes	• The students will complete an exit ticket and turn it in for formative assessment.	 The students will complete an exit ticket asking about which city they would prefer to live in and why. The students will write down any questions they have about the lesson.

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.	I am having the students use a computer during the lesson. On the computer they will be using Excel to better understand how to analyze and interpret data. This will also help students understand how charts of data correlate with graphs, such as line graphs and bar graphs. This allows students to have a hands-on interaction with data and how it might be used in daily life. The kinesthetic nature of the technology will help greatly with retention of the material.
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Accommodations/Modifications

How might I modify instruction for:	.I am providing students the cognates or Spanish equivalents of all the words to
Remediation?	help ESL students. I can provide students with already filled out charts and graphs
Intervention?	should their IEP or 504 require it. I also included small group work that I will
IEP/504?	chose for a low-anxiety environment and enhanced scaffolding based on student
LEP/ESL?	need and ability.
(All students who have plans mandated by	
federal and state law.)	

Differentiation

How might you provide a variety of	This activity requires students to be paired into groups which I will select for
techniques (enhanced scaffolding, explicit	enhanced scaffolding. It will use color coding within the spreadsheets. It also uses
instruction, contextualized materials,	a lot of visuals, such as charts and graphs to help student comprehension.
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 be used in this lesson to monitor students'	X Formative $/\Box$ Summative	Students will complete a line graph and turn it in.
learning of the lesson objective(s) (include type of assessment & what is assessed).	X Formative / Summative	I will be walking around the room asking questions and keeping a record of students' strengths and weaknesses.
	X Formative $/\Box$ Summative	Students will complete an exit ticket.

Research/Theory

Explain connections to theories and/or	This lesson is an example of cooperative learning, which is a student-centered
research (as well as experts in the field or	model of teaching. This is based on the ideas of theorists Piaget and Vygotsky
national organization positions) that support	who developed the concepts of scaffolding and the zone of proximal
the approach you chose and justify your	development. It encourages student problem-solving and develops
choices using principles of the connected	communication and social skills. It also helps students be motivated to learn,
theories and/or research.	since it is an engaging teaching strategy. It provides teachers the opportunity for
	a great amount of differentiation.

Lesson Reflection/Evaluation

What went well?	TO BE FILLED IN AFTER TEACHING
What changes 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: 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/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