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# **Lesson Plan**

<b>Learning Segment Focus</b>	_Graphing Data	_Lesson3	of_	4	-	
Course & topic addressed	Science-Space System	ms Dat	e03/2	8/20	Grade_5	

#### **Student Outcomes**

Specific learning <b>objectives</b> for	Students will take their collected data and analyze the results.
this lesson.	Students will demonstrate their analyzation by synthesizing graphs.
Justify how learning tasks are	Students have taken recorded data and turned it into graphs.
appropriate using examples of	Students have learned how to properly collect data.
students' prior academic	
learning.	
Justify how learning tasks are	Math is universal. My Ell students are allowed to use either the Metric system or the American
appropriate using examples of	system to display their data.
students' personal, cultural,	
linguistic, or community	
assets.	

### **State Academic Content Standards**

List the <b>state academic content standards</b> with which this lesson is aligned. Include abbreviation, number & text of the standard(s).	5-ESS1-2 Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky. [Clarification Statement: Examples of patterns could include the position and motion of Earth with respect to the sun and select stars that are visible only in particular months.] [Assessment Boundary: Assessment does not include causes of seasons.]
	SL.5.5 Include multimedia components and visual displays in presentations when appropriate to enhance the development of main ideas or themes. (5-ESS1-2)
	MP.4 Model with mathematics. (5-ESS1-1, 5-ESS1-2)

**Key Vocabulary** 

What vocabulary terms/content specific	Shadow
terminology must be addressed for	Measurement
students to master the content?	Bar Graph

**Academic Language Support** 

What are the <b>Academic Language Function(s)</b> (the content
and language focus of the learning task represented by the
active verbs within the learning objectives/outcomes) and
explain how they are utilized in the lesson plan?
What planned <b>Academic Language Supports</b> 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 <b>teacher</b> for this lesson. (such as books,	Computer
writing materials, computers, models, colored paper, etc.)	Excel
	Smart board/projector with airplay capabilities
Materials needed by <b>students</b> for this lesson. (computers,	Computer
journals, textbook, etc.)	Data that has been recorded as homework
	Excel

**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)
2 minutes	Introduction: Reminder about their collected data	Remember how we collected our data about the length of shadows depending on the day. Grab tha homework and your computer. We are going to turn that data into graphs in today's lesson.
	Instruction:	
2 minutes	Instructions/Questions	Instructions on putting the data into the excel file and turning the data into a graph. Answer any student questions.
3 minutes	Independent work	Students will fill out their excel files from the data and turn that data into a graph.
15 minutes	Small group comparison of data	Students will get in groups of 4. These are already determined by the teacher and the groups are listed on the smart board for students to see. Students will let the others copy their data into personal excel files so that every student has 4 different sets of data. Students will create a graph comparing the different data sets.
15 minutes	Whole group discussion	Whole group discussion/presentation of data. One member of each group will airplay their computer to display their comparison graph. After all the groups have shown we will have a discussion comparing the data sets and exploring what students have learned.
1 minute	Closure: Students submit work.	Students will submit their excel files on google
	2 1 2 do not not not not not not not not not no	classroom.

## **Accommodations/Modifications**

How might I <b>modify</b> instruction for:	.Students with learning disabilities will have a template that includes a premade
Remediation?	graph.

Intervention?	Ell students are allowed to use me	etric system when recording data.	
IEP/504?		•	
LEP/ESL?			
(All students who have plans mandated by			
federal and state law.)			
<b>Differentiation</b>			
How might you provide a variety of	Students who struggle to focus	will be given a color coded template or an	
techniques (enhanced scaffolding, explicit	interactive template.		
instruction, contextualized 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 Sun	<u>ımative</u>		
Describe the <b>tools/procedures</b> that will be	Formative /□ Summative	Teacher will observe small group discussion	
used in this lesson to monitor students'		and ask probing questions.	
learning of the lesson objective(s) (include	Formative /□ Summative	Presentation of graphs with the class	
type of assessment & what is assessed).	<del>-</del>	discussion. Students are able to edit the graph	
		while we display it and discuss it.	
	☐ Formative / Summative	Students will turn in their completed graphs.	
Research/Theory			
Explain connections to theories and/or	Group investigation theory states	that students learn by exploring and	
research (as well as experts in the field or	discovering the answers for themselves		

#### **Lesson Reflection/Evaluation**

theories and/or research.

national organization positions) that support

the approach you chose and justify your choices using **principles of the connected** 

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?	

Scaffolding will allow the students to continue in their discovery learning.

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: <a href="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;</a>;

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;

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