Lesson Plan Template

Learning Segment Focus_Science & Math: Data Analysis_____

Lesson4of5 Topic _Data Analysis Date	e_03/24/2021	Grade_3rd
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Student Outcomes

Specific learning objectives for	By the end of this lesson, TSW be able to collect data and input the information into a Google Sheet
this lesson.	as well as observe a line graph and bar graph composed from the collected data. TSW also be able
	to draw corresponding tally charts, pictographs, line graphs and bar graphs on paper using the data
	collected from this lab.
Justify how learning tasks are	Previous lessons in this unit have included descriptions, examples and modeling of tally charts,
appropriate using examples of	pictographs, line graphs and bar graphs. Students have seen the teacher use Google Sheets within
students' prior academic	previous lessons but have never input information on their own. Students will be walked through
learning.	each step and will complete the Sheet collaboratively.
Justify how learning tasks are	This assignment is an all-inclusive and well-rounded assignment that takes students outside of the
appropriate using examples of	classroom for the data collection, allows for technological contributions and involves basic
students' personal, cultural,	pencil/paper aspects. This assignment aligns with most of the student's senses and interests.
linguistic, or community	
assets.	

State Academic Content Standards

List the state academic content	AR.Math.Content.3.MD.B.3 - Draw a scaled picture graph and a scaled bar graph to	
standards with which this lesson is	represent a data set with several categories (e.g., Draw a bar graph in which each square in	
aligned. Include abbreviation, number	the bar graph might represent 5 pets)	
& text of the standard(s).		

Key Vocabulary

What vocabulary terms/content specific	Tally chart, Pictograph, Line graph, bar graph
terminology must be addressed for	
students to master the content?	

Academic Language Support

What are the Academic Language Function(s) (the content	Students have been completing minor tasks surrounding these
and language focus of the learning task represented by the	activities throughout the week (3 days previous). Students have been
active verbs within the learning objectives/outcomes) and	shown videos, had discussions, provided examples, seen modeling
explain how they are utilized in the lesson plan?	and completed small, individual pieces of this assignment on
What planned Academic Language Supports will you use	previous days. Students will be walked through each piece of this
to assist students in their understanding of key academic	assignment, provided clarification and guidance when needed and
language to express and develop their content learning and to	scaffolding will be available at all times.
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	SmartBoard, Chromebook, Google Sheets, Timer
paper, etc.)	
Materials needed by students for this lesson. (computers,	Tally Chart, Line Graph & Bar Graph Worksheet, Pencil, Ziploc Bags,
journals, textbook, etc.)	Chromebook, Google Sheets

Lesson Timeline with Instructional Strategies & Learning Tasks

Amount of Time	Teaching & Learning Activities (This	Describe what YOU (teacher) will be doing
	snould be a BULLETED LIST)	this part of the lesson. (This should be VERY
		DETAILED)
20 min	Introduction:	TTW hand out the Tally Chart, Pictograph, Line Graph & Bar Graph worksheet and a Ziploc bag per student while explaining directions for the assignment. She will let them know that today they will be going outside to collect materials to fill in the information on the provided worksheet. The materials collected are listed on the worksheet and are to be put in the Ziploc bag when collected. The students will line up, go to the field beside the school and be given 5 minutes to collect their materials and return to the line. Once the class returns to the room, further instructions will be
20 min	Instruction:	 provided. Once the students return to the room from collecting their materials, TTW pull Google Sheets up on the Smartboard and instruct them to do the same. (The Sheet has already been shared with the students) TSW then be instructed to count their materials and enter tally marks beside each on their worksheet. Once they have tallied their materials, they will enter the numbers in Google Sheets. The Google Sheet will calculate as they enter for them to observe. It will also compose the line graph and bar graph automatically as data is being entered. Once all data has been entered, the students will independently fill in the pictograph, line graph and bar graph sections of their worksheets. They will only fill these in with their own information. TTW walk around the room scaffolding as needed throughout the entire process.
10 min	<u>Closure:</u>	Once all information has been entered and all worksheets have been completed, the students will submit their worksheets to the inbox for grading. TTW explain that fully understanding the ins and outs of graphs and charts is imperative for the upcoming state tests. She will ask if there are any questions and answer as needed.

Technology Integration

Provide your rationale for your technology choices that accurately reflects those choices within your	In this lesson, Google Sheets is being used on the Chromebook and SmartBoard, Google Sheets was chosen as a way to introduce the
teaching context. Identify what technology(s) you are	students to data entry and analysis. When entering the data into the
using as part of your lesson plan. Describe how the	table, a line graph and bar graph automatically form. This
use of technology aligns to your learning objectives,	coincides with the standard and objective of drawing graphs.
content standards, and central focus. Explain how	
technology-based instructional strategies are essential	We live in a technological world so any lessons that can include
to students accomplishing the learning objectives	technology is beneficial for our students. Technology can be

(beyond what could be accomplished without using the technology). Specify how the technology	extremely user friendly if taught and understood correctly. By starting with simple aspects, like filling data into a table that is linked to graphs, we are strengthening the students content.
students. Justify the "fit" of chosen technologies,	knowledge as well as expanding their technological knowledge.
showing how the content, instructional strategies, and technology "fit" together.	

Accommodations/Modifications

How might I modify instruction for:	Extended time to complete, large print materials, small group work, one on one
Remediation?	direction and/or assistance (including reading), ability grouping, quiet space to
Intervention?	complete work, preferential seating
IEP/504?	
LEP/ESL?	
(All students who have plans mandated by	
federal and state law.)	

Differentiation

How might you provide a variety of	Extended time to complete, large print materials, small group work, one on one
techniques (enhanced scaffolding, explicit	direction and/or assistance (including reading), ability grouping, quiet space to
instruction, contextualized materials,	complete work, preferential seating
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' learning of the lesson objective(s) (include	X Formative / Summative	Student's data input into the Google Sheet as well as completion of the charts & graphs on the worksheet.
type of assessment & what is assessed).	□ Formative / X Summative	Data analysis and understanding on state testing.
	□ Formative /□ Summative	

Research/Theory

Explain connections to theories and/or	The theory of Socially-Shared Cognition is considered as communal
research (as well as experts in the field or	participation in the occurrence of learning. This means that the learners are
national organization positions) that support	active participants in a shared learning community. Technology relates to this in
the approach you chose and justify your	that it is where the participants are learning and sharing together. This connects
choices using principles of the connected	to this lesson since it is a collaborative lesson between the class members and
theories and/or research.	each of their contributions to the Google Sheet has an effect on the product of
	the table and graphs.

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.