Name: Ms. Katy Koons

Lesson Plan Template

Lesson Segment Focus: Plant Growth Lesson: 1 of 1

Course & topic addressed: Math and Science: Tables and Data

Date: October 2018

Grade: Second

Student Outcomes

Specific learning objectives for	Students will learn how to record data and use that data to make tables and graphs.
this lesson.	
Describe the connection to	Students can already do basic addition and subtraction.
previous lessons. (Prior knowledge	Students know what a table is and can use the given information to fill in a table.
of students this builds upon)	Street in the control of the control
Knowledge of students	The students already participate in the school nursery/flower bed and know the basics of plant life and
background (personal, cultural, or	nutrients.
community assets)	nations.

State Academic Content Standards

List the state academic content standards with which this lesson is aligned. Include state abbreviation and number & text of the standard.	 AR. Math.Content.2.OA.A.1 Use addition and subtraction within 100 to solve one – and two-step problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. AR.Math.Content.2.MD.D.10 Draw a picture graph and a bar graph, with single-unit scale, to represent a data set with up to four categories. 2PS1-2 Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.
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Academic Language Support

What planned instructional supports might you use to assist	I will give them a list of vocabulary words that we will use prior to starting the
students to understand key academic language to express and develop their content learning?	activity and assessment. These words will be used throughout the course of the
What will you do to provide varying supports for students at	activity and assessment. They will also be quizzed on these words later.
different levels of academic language development?	

Key Vocabulary

What vocabulary terms/content specific	Some vocabulary words that we will address are: table, data, analyze, photosynthesis,
terminology must be addressed for	oxygen, life cycle, stem, roots, leaves, seeds, graph, and legend (key).
students to master the lesson?	onggen, me egete, stem, roots, teaves, seeds, graph, and regena (neg).

Materials

Materials needed by teacher for this lesson .	The materials needed by the teacher are Plant pots, seeds, soil, water, sunlight, UV lamp, Excel software, paper, crayons and markers.
Materials needed by students for this lesson .	The materials needed by the students (provided by the teacher) are paper, pencils, crayons and markers.

Lesson Timeline with Instructional Strategies & Learning Tasks (This should be VERY DETAILED)

Amount of	Teaching & Learning Activities	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this
Time		part of the lesson.
2-5 Minutes	Introduction: Video and Discussion	When I introduce this lesson, I will begin by showing the students an animated YouTube Video about plants and how they grow. We will discuss what nutrients plants need to thrive and what is harmful to these plants. We will also discuss tables and graphs and why they are important when looking at data over time.
30 minutes to 1 hour. Then 5 minutes per day for 4 weeks.	Instruction: Discussion with directions and the activity.	I will bring out the needed supplies for the lesson. We will plant the seeds in the pots and cover them with soil. We will have four potted plants. The students will be separated into four groups. Each group will take care of their plant and record its growth every Friday. The first plant will receive water only. We will water it one time a day. It will sit in a shaded spot of our classroom. The second plant will receive sunlight only. It will not receive water and will sit by a window where it will get the most sunlight. The 3 rd plant will sit under a UV light and will receive no water. The plants are the dependent variable and the nutrients each plan receives are the independent variable. Before the students begin recording their data, we will do an exercise with example data, so they can practice making tables and graphing data. The students will take care of their plants daily but will only measure their plant growth on Fridays. Once the 4 weeks are complete, they will take their data and put it on a table. Once we have the data listed on a table, the students will make their graphs on graphing paper. They will color the separate groups, so they can tell them apart. I will also make a table and graph on Excel, so they can see if theirs match mine.

Amount of Time	of Teaching & Learning Activities		Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this part of the lesson.		
	Closure:		The other 2 nd grade classes performed the same experiment in their classrooms. We will take		
30 minutes			their data and ours to see which plants thrived in each class versus which ones died or did		
	Data from other classes.		not grow. We will show the students that results may not always be the same and that is why		
	Making tables and Graphing.		we have multiple trials when conducting experiments.		
	ions/Modifications				
	modify instruction for:		this is a group activity/experiment, any students who need accommodations or modifications with		
Remediatio			e able to participate and enjoy the project. I will make sure to only have the class work on this		
Intervention	1?		when these students are mainstreaming in our classroom. I will be inclusive when letting them participate and enjoy the activity with the rest of the class.		
IEP/504?		I will b			
LEP/ESL?					
oifferentiatio	n:				
instructional methods/tasks/instructional strategies to ensure all student needs are		I will fi	first show the class by potting a plant myself. I will then show them a video time-lapse of what		
			we will be doing over the course of 4 weeks. I will give oral instructions. Then the students will get to do this themselves (with my assistance).		
		to do th			
met?					
	Formative and/or Summative	.			
	tools/procedures that will be	☐ Fo:	ormative / Summative		
	esson to monitor students'	☐ Fo:	ormative / Summative		
	ne lesson objective/s (include	☐ Fo:	ormative / Summative		
type of asses	sment & what is assessed).				
Research/The					
	ries or research that supports				
the approach	you used.				
esson Reflec	tion/Evaluation				
What went w		O BE FIL	LLED IN AFTER TEACHING		
	es should be made?				
	se assessment data for next				
-4					

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