Lesson Plan Template

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Grade: 2nd Grade	Subject: Science
Materials:	Technology Needed:
Desposible cups (4 per student)	Computer
Zinnia seeds (4 per student)	Internet
Dirt	PowerPoint
Spray bottle	
Sunlight	
Cabinet or locker	
Instructional Strategies	Guidad Bracticae and Concrete Applications
$\oint \text{Direct instruction} \qquad \qquad$	Suided Fractices and concrete Application.
€ Peer teaching/collaboration/	€ Large group activity € Hands-on
€ Guided practice cooperative learning	€ Independent activity € Technology integration
€ Socratic Seminar € Visuals/Graphic organizers	€ Pairing/collaboration € Imitation/Repeat/Mimic
€ Learning Centers € PBL	€ Simulations/Scenarios
€ Lecture € Discussion/Debate	f = O(thor / list)
€ Technology integration € Modeling	
€ Other (list)	Evoloin
	схріані.
Standard(s)	Differentiation
LS2.A.: Interdependent Relasionships in Ecosystem, plants depend on	Below Proficiency:
light and water to grow.	A student that is performing below proficiency will be able to
	complete the experiment just as the other students will. But in
2.HS.2: Independently use a computing device to perform a variety of	the initial experiment, just as the other students will. But in
tasks.	their journal entries, I will not require complete sentences. Rather I
	will be looking for the students' thought process, whether that is
Objective(s)	drawn out in pictures or in short fragments of words. I will also
The students will see and understand the effects that water and	provide these students with different options and examples on
sunlight have on the growth of a plant. Students will be able to record	how to record the data they are finding. The students will aslo be
and analyze their collected data in an organized manner. The students	paired up with students who are working above proficiency for the
will be able to demonstrate their understanding through a group	group disscussion and the group powerpoint they will be making at
	the and of the lossen. These students will be expected to still add
Bloom's Taxonomy Cognitive Level: Create	
	their observation and imput but they will be able to recieve help
	from their peers.
	How would you describe what you are seeing in the plant growth?
	(have to the student tell you verbally and then help them form the
	writing sentences)
	Above Proficiency:
	The students that are working above preficiency will be shallonged
	The students that are working above proficiency will be challenged
	to come up with their own data collection and organization
	method on their own. They will also be challenged to write full
	complete sentences about their observation. These students will
	be added to groups with students that are working below
	proficiency to help them understand. These students will be able
	to help the other students further their learning by acting as peer
	teachers These Students will help make and present a nowerpoint
	that will include more information than what we could about
	during close. Therefore, hereing to de recerch and the tories
	during class. I nerefore, having to do research on the topic to
	further their own learning.
	What kind of predictions would you make if we changed more
	factors of the plant? For example, What you happen if we added
	salt to the dirt that the plant was growing in?
	Approaching / Emerging Proficiency:

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	Modalities/Learning Preferences:		
	Visual intelligence: Videos and and the student lead powerpoints will help the students see what is happening to the plants and the repetion in the powerpoints between the groups will help the students memorize and remeber the information they are learning. Spatial Intelligence: Planting and watering their own flowers the students will be provided with a hands on experience that they are		
	more likely to remember doing.		
	Linguistic Intelligence: The scientific journal that the students are keeping will allow the students to create and explain their own way of thinking while watching a plant grow.		
	Interpersonal Intelligence: The students will work together within their groups to discuss and share different ideas on the differences that they saw in the growth of the flowers. This form of collaboration will help the students be successful and to provide further knowledge for them.		
	Maybe having the students work with a partner to help them build and develop social skills and the skills to work together in a goup?		
	Logical Intelligence: This task will show the students in real life what it takes to grow a plant and how the sunlight and water affects the growth of the plant. This will also help with the students understanading of technology through the powerpoint. They will also gather communication skills through this task.		
Classroom Management- (grouping(s), movement/transitions, etc.) Group work: The students will all contribute to the project. They will use different colors within the powerpoint to show their thoughts and what they worked on. Class discussion: The students will each be given the opportunity to share their ideas with the class, and they will also have the time to ask questions, the students are expected to be respectful when others are speaking.	 Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) The students will work with a 3 warning system (this will the the system we always use so they will be familiar with this) The students will get 3 warnings if they are not following instruction and if they still after that are nopt following directions they will have to meet with me after class to discuss the acting out. 		

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Turn and ta loud and th Materials: T manner. If t direct instru the items ta flower for t How should keep our we work space	Ik: All students are to participate. They are not to get too eta re to stay on the topic that we are speaking about. The materials that we use must be used in a safe and clean the students are still making a mess after 3 warning and uction on what they are supposed to be doing, they will have aken away for the time being and I will plant or water the hem. If we bne acting when the materials are given out? Will we ork area neat and clean or will be be making a mess in our s?	 The students will be provided with the specific materials for the experiment, and only enough for the experiment. They will be given exact instruction, in writing and verbally, on how to use the materials appropriately. At the beginning of the lesson the students will be clearly told what is expected of them and wha will happen if theya re not listening. The students will quickly come back to attention, ready to listen in an efficient manor. Do we all understand what we should be doing and how we use our materials correctly? 	
Minutes	Procedures	•	
 Set-up/Prep: buy And bring in the materials that are needed to complete this experiment. Separate the dirt into different cups (4 for each child) Put four seeds into a plastic bag for each student Emptying out a shelf or a shelf in a cabinet for the plants are are not going to receive sunlight. Have a cleared space by the windows that the students are able to put the plants that will be in the sunlight. 			
	 Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) Have the students turn and talk to eachother about a time that they have witnessed the growth of a flower or when they planted flowers with their parents, siblings, or friends. Have some students share out these experiences for the class to hear. Bring the class back together with a quiet signal to allow the students to finish what they were saying. Begin the lesson portion of the class with a powerpoint for visuals but also being sure to give examples in the verbal lecture. Explain to the students that plants need water and sunlight to grow. Relate this to how they need water and food to grow big and strong, this is the same for the plants. Have you ever planted a flower in the front garden or have you ever watched a plant grow in your house? 		
	Explain: (concepts, procedures, vocabulary, etc.)		
	 Open the class with a video showing the process of aso give them the base knowledge that they need the Begin the lesson portion of the class with a powerp Explain to the students that plants need water and and strong, this is the same for the plants. What do you all expect to see the flower seeds do the flowers never grow? 	f growing for flowers. The video will peak the interest of the students, and to begin the lesson. Doint for visuals but also being sure to give examples in the verbal lecture. Sunlight to grow. Relate this to how they need water and food to grow big when we plant them? Will they grow really fast, will it take time, or will	
	Explore: (independent, concreate practice/application with	relevant learning task -connections from content to real-life	
	 experiences, reflective questions- probing or clarifying questions with each of the individual materials before contrast will happen. Have each student plant their seed in the dirt about insure that they are going to do it correctly. Explain to the students that we will be watching that the growth of the plants. Have the students place 2 of their plants in the dire hitting the plants. Each of the students will keep track of their plants lis no argument between the students about which For about 2 weeks the students will record in their and how the water is affecting the plants. At the end of the observation period, the students the students were able to understand. 	stions) It will be getting used in this experiment. Allow the students to touch and ombining them for the experiment. This will hopefully eliminate the mess It an inch down, show them before the plant the seeds on their own to e growth and the interactions that the water, sunlight and darkness affect ect sunlight and place 2 plants in the cabinet where there will be no light because the cups will have their names on them. This will make it so there plant is theirs and which is not. of the plants that they put in the sunlight and one of the plants that they journals everyday what they are observing in the growth of their plants in and in the dark, recording the changes in the plants and in the soil will turn in their journals for review, to understand the information tha	
	What are you all seeing in the growth of our plants the water affecting the growth of the plants?	? Are the plants in the sun growing better than the ones in the dark? Is	

	Review (wrap up and transition to next activity):		
	 Based on the comprehension shown in the journal every learning level in each group. Allowing for pere In these groups the students will be asked to share kind of effect on the plant's growth and soil. The students will all participate in the presentation help the group. The students will present their findings to the class information that they are hearing will increase the What did you all learn from your classmates presengrow in different patterns? 	entries the students will be put into groups, so that there are students of er teaching and peer learning. their findings and look up information on why they think light has this n, each student will type in a different color to show what work they did to is in the form of the powerpoint presentation. The repetition of the ir ability to understand and retain the information that they are hearing. Intations? Did everyones plants grow and look the same or did they all	
Formative	Assessment: (linked to objectives)	Summative Assessment (linked back to objectives)	
Progress in strateg	monitoring throughout lesson- clarifying questions, check- zies, etc.	End of lesson: The students know why plants need water and sunlight to grow. They	
I will be ab	le to check in on the students learning, when we first plant	alsio are able to collect data in a neat and informative way. They were	
The flowers	s, if they were able to to it right. heck in will be when they tuen in their iournal entries for	able to write complete sentences about what they were seeing with proper grammar and punctuation. The students were able to work	
review. No	t only will I be able to see their understanding o th concept	together ina group to present the information that they collected to	
but it will a	also show the students writing and data collection skills. eck in for the students will be when they present to the class	the class in a clear and professional manner.	
The inform	ation that they were able to come up with to present to the	If applicable- overall unit, chapter, concept, etc.:	
class and tl	heir participation in their group.		
What did w	ve learn from growing the flowers? Did they all lookt the		
same in the	e end if they did it effect if they had water or snulight?		
Back up pla	an id this does not work out is to present the information to		
the class vi	a powerpoint, without the experiment. So to only have one		
the same g	rowers that I am in control of so the students can all look at growth of the same flower so they all have the same		
informatio	n and the same observation to work off of for their group		
work.			
Reflection	(What went well? What did the students learn? How do you	know? What changes would you make?):	
At the end	At the end of the unit the students should have learned why plants need water and sumight to promote the growth of the plant. They will have		

also been able to work in a group well and presented the information that they found out in a clear manner. In the future, I might not have all of the students plant their own plant, rather I would just plant one and have them all observe the same plants. This would save space in the classroom but it also would not allow the students to have the hands on experience they need.

Maybe have to students work in groups then it will save spac around the classroom and the students will also get to work together on growing the plants and continue to have these groups for the presentations?