Lesson Plan Template

Grade: Eth grade					
Grade: 5 th grade			Subject: Science, Language Arts		
Materials: Science journals, paper, markers, crayons, colored pencils,			I echnology Needed: IPads (voice recording)		
oil pastels, cotton balls, pipe cleaners, glue, whiteboard, iPads			Cuided Dreating and Constants Associations		
Instruction	al Strategies:		Guided Practices and Concrete Application:		
Direct	instruction	Peer teaching/collaboration/	Large group activity	Hands-on	
Guide	<mark>d practice</mark>	cooperative learning	Independent activity	Technology integration	
Socrat	tic Seminar	Visuals/Graphic organizers	Pairing/collaboration	Imitation/Repeat/Mimic	
Learni	ing Centers	PBL	Simulations /Sconarios	initiation/ repeat/ winne	
Lectur	re	Discussion/Debate	Other (list)		
Techn	ology integration	Modeling	Surfaine		
Other	(list)	0	Explain:		
other	(130)		Th topic will be introduced to		
			the learners in whole-group.		
			The learners will then		
			transition outside and		
			observe and describe three		
			different materials in groups.		
Standard(s	5)		Differentiation		
Science: Pe	erformance Standard 5-P	S1-3 Make observations and	Below Proficiency: (Hawa, KK, Jaydon, JayLee) Students will		
measurem	ents to identify materials	based on their properties.	incorporate three of the five physical properties in their		
	· · · · · · · · , · · · · ·	·····	description and observation of the objects and materials.		
	Arts: W 2: Write informat	tive/explanatory texts to examine	Students will use a minimum of	two domain-specific words	
a tonic and	convey ideas and inform	nation clearly	Stadents will ase a minimum of	two domain specific words.	
a topic and		nd domain specific vocabulary to	Abovo Proficionov: (Wyatt Jami	i Dontav Ella Nat Brodio	
u. Ose precise language and domain-specific vocabulary to			Jadan Hudson Ellos Shyann P	ronna) Students will utilize all of	
inform about of explain the topic.			the demain energific terres in their charmations and report and		
	<u>,</u>		will observe four or more objects and materials		
Objective(s)			will observe four or more object	s and materials.	
By the end	of the lesson, the learne	r will observe three different		/ · · · · · · · · ·	
materials a	ind objects outside and d	escribe them based on their	Modalities/Learning Preferences (Auditory, Visual, Tactile,		
physical pr	operties by recording the	eir observations in one of the	Kinesthetic)		
approved w	vays.		Auditory: Students will listen to the definitions of the domain-		
			specific words and listen to other students' observations and		
By the end of the lesson, the learner will write up a report of their findings using domain-specific language like "physical properties", "color", "shape", "weight", "texture", and "hardness".			ideas. Students can record their	observations auditorily on their	
			iPad.		
			Visual: Students will see example	es of physical properties, observe	
			different materials and objects in nature to make observations of		
Bloom's Ta	xonomy Cognitive Level	: Knowledge, Analysis	their own, and be able to reference domain-specific words		
biolin's faxonomy cognitive rever. Knowledge, Analysis			through visuals as well as word definitions. Students can draw or visually represent their observations as research for their written		
Tactile: Students will manipulate	the materials and objects (if				
naccine. Students will manipulate					
			possible) throughout their obser	vation.	
Classroom Management- (grouping(s), movement/transitions, etc.)			Benavior Expectations- (systems, stra	ategies, procedures specific to	
Students will be in five groups of five students each. They will be			the lesson, rules and expectations, e	tc.)	
grouped by counting off. Students will move outside in their groups to			Students will use walking feet, quiet	voices, and respectful language	
observe th	eir materials and discuss	their observations. Students will	when talking with their peers and tea	chers. Students will complete the	
be warned when five minutes is left and asked to transition back			writing portion on their own unless a	pproved to work with another	
inside to independent writing of their report at their desk with			student (see above). Students will dis	cuss their observations and	
walking feet and quiet voices. Students will be warned when five			findings with their peers. Students wi	II transition quietly, quickly, and	
minutes ar	e left for writing and will	be asked to turn to their desk	safely. Students will not ingest or tast	te any of the materials or objects	
partner an	d share their observation	s with the partner. The teacher	they are observing.		
will call the	em back and the students	s will pass their papers up.			
Minutes	Procedures				
3	Set-up/Prep: Gather th	ne art materials in one place.			
U U					
5-6	Engago, longning activity / anticipatory Cot - accord prior logening / stimulate interact / concrete substitute at)				
5-0	"Eind your dock porteo	rs students New Lwest verte firm	coming / summate interest /generate	questions, etc.	
	Find your desk partners, students, Now, I want you to figure out which birthday comes first, yours or your desk partner's. Thumbs				
	up when you know. Okay, whoever's birthday is first, you need to close your eyes. Okay, keep your eyes closed until I say you can open them back up. I am going to put a picture up on the board. I want you to get your desk partner to guess what the picture is of. You can only describe the object by saying its color, size and shape, how much it weighs, how hard or soft it is, and how it feels. Okay, go ahead students. (allow two minutes for descriptions). Students, come back to the class in 5, 4, 3, 2, 1. You can open your				
				1 5, 4, 3, 2, 1. You can open your	
	eyes. Everybody's eyes should be open and on the teacher. Was that hard or easy? Thumbs up if it was easy, thumbs down if it was				

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	hard. What kind of aspects or words did you use to help yo today we are going to learn how scientists use observation	ur partner guess correctly? (take two or three share-outs). Students, to learn about objects."		
10	Explain: (concepts, procedures, vocabulary, etc.) "When scientists try to determine what an object is, they look very closely at its physical properties. Who has a hypothesis as to what physical properties are? (take at least one hypothesis). The physical properties of an object are the characteristics of an object or material that does not change. It's what makes the material or object what it is. Let's use an example. This is a pencil. Why is it a pencil? (Take answers-because it writes, because it's long and narrow, because it has lead in it, etc.). The properties of this pencil that make it a pencil is that it is thin and shaped like a tube. It has a pointy top to write with and a rubbery end for the bottom. It is different colors, and it is pretty light. It is smooth except for the pointy top. When we as scientists are trying to figure out what a substance is, we look at its physical properties-color, weight, shape, texture, and hardness of it. Let's go through what each of these terms mean. Color, what does that mean? (what it looks like, draw spot in different colored marker). Weight, what does that mean? (I's it heavy or light, draw a weight and a feather). Texture, what does that mean? (It's how something feels. Is it bumpy or squishy? Draw a poky porcupine). Hardness, what does that mean? (does it break easily? Is it soft and easy to change shape or is it stiff? Draw a rock and some water). We are going to go outside and work in groups to observe different materials and objects we see outside and describe them using these terms, or their physical properties. You are responsible for recording your observations are. I know that you are responsible scientists, so I am going to give you a choice on how you record your observations. Some scientists might want to visually represent the materials and objects they are seeing. I am bringing out crayons, markers, pencils, oil pastels, and paints and brushes, glues, cotton balls, and pipe cleaners out for thes. Some scientists might want to record			
30	 Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) Walk around outside facilitating discussion and accurate observations. Ask questions like, "How are you recording your observations? How are you making sure you know which observation goes with which material? How are you using the proper terms to describe your observations? Did anything surprise you? Why?" Take pictures of students' observation records to use as formative assessments. After fifteen minutes of exploration, pull the students back by saying, "Gather around me by the door with voices off and eyes on me in 5, 4, 3, 2, 1. Students, you thought like scientists today and recorded your observations. I heard quite a few students using these terms we talked about in their observations, that's wonderful. Let's go back inside and talk about the next step that scientists would take. (Walk students inside and guide them back to their desks). Okay, students, the next step for scientists is to share our 			
	 observations and findings. I want you to write up a report of your observations. I want you to describe the physical properties of the physical properties, because it is important to use the right words in our writing so that everyone knows what we are talking aborgoing to give you ten minutes to work on your report. After the timer is done, we are going to share out some of our find timer). While students are writing, make suggestions to students based on the pictures of their observations that you took earlier answer any questions. 			
3	Review (wrap up and transition to next activity): "Alright students, if you are not quite finished with your report, that's okay, you may work on it at independent work time or writing time. Let's have three share-outs of different observations. (take three share-outs, reinforce the use of the correct terms in their descriptions). Excellent work scientists! I am excited to read these and see what observations you made and terms you used today. I challenge you to think about the physical properties of different objects around the school today. If you are done, I want you to double-check that you have your name on it and pass it forward. Please pass forward your observations as well.			
Formative Assessment: (linked to objectives) Progress monitoring throughout lesson- clarifying questions, check- in strategies, etc.		Summative Assessment (linked back to objectives) End of lesson: Reports written by the students, observations completed by the students.		
Answers to	o the questions asked in the Explore section:	If applicable- overall unit, chapter, concept, etc.:		

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"How are you recording your observations? How are you making sure you know which observation goes with which substance? How are you using the proper terms to describe your observations? How do you know that this substance is a rock/wood/etc.? Did anything surprise you? Why?"

Pictures of observations taken in explore section.

Consideration for Back-up Plan: I could use different materials found in the classroom if we were unable to go outside. I could offer a limited amount of record-keeping options if not all the materials were available for use.

Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

This lesson went pretty well. The grabber caught my students' attention right away, and they drew the connection to physical properties right away. Additionally, this grabber helped them utilize the physical properties' terms much more successfully throughout the lesson. Additionally, taking them outside to observe and record authentic materials was engaging for my students. While they worked on their observations, I walked around and employed the feedback I received on my differentiation to increase the number of criteria for my high fliers. I caught my high fliers and told them that instead of observations on three objects, I wanted at least four or five, and these students really excelled at meeting that goal. I could tell that I empowered these students, and the pride on one of my student's face was evident when she showed me her observations on five different objects. I know that my students learned more about how to use words and visuals to describe their observations as scientists because they started using words like 'cylindrical' to describe shape and were able to explain why they used the materials they did to record their observations in terms of accuracy. Additionally, I know that my students practiced critical thinking skills because of the discussions they had with peers and teachers about what words would be most accurate in describing their objects ("Would this be more rubbery because it is bouncy when you step on it or hard because it is hard to squeeze between your fingers?" or "Ms. Hanson, would 'cylindrical' be more accurate than 'pole-shape' for this piece of equipment?"). The changes I would make to this lesson would be more about the placement of the lesson in the year and the setting. For example, I would want to ensure that the students had extensive practice with each of the materials that I set out for them for the lesson. Additionally, I would want a more enclosed space for the students to observe in because some students wandered off a ways away and started getting off track and pla