r		200001111					
Grade: fifth		Su	Subject: science				
Materials: science book, white board, marker, pencil, observation checklists				Technology Needed: none			
Instructional Strategies:				Guided Practices and Constate Application			
F Direct instruction	£	Dear teaching (collaboration (		lueu Flactices and concrete	Applica		
E Guided practice	e		€	Large group activity	€	Hands-on	
Contraction Complete	6	cooperative learning	€	Independent activity	€	Technology	
€ Socratic Seminar	€	Visuals/Graphic organizers	€	Pairing/collaboration		integration	
€ Learning Centers	€	PBL	€	Simulations/Scenarios	€	Imitation/Repeat/	
€ Lecture	€	Discussion/Debate	€	Other (list)		Mimic	
€ Technology integration	€	Modeling					
€ Other (list)			E	xplain:			
Standard(s)			Differentiation				
			Below Proficiency:				
5-PS1-3- Mark observations and	measu	rements to identify materials					
based on their properties.				• Students will be able t	to gain i	ideas from their	
				book as they were rea	ding		
				• Student will be able to	o talk al	bout different	
Objective(s)			materials and properties with their peers during				
				turn and talks			
By the end of the lesson, student	s will h	have created a T-chart to		<ul> <li>Students can use the i</li> </ul>	idoac fr	om tha T chart an	
demonstrate their understanding	g on cat	tegorizing different materials		Students can use the l	ueas II		
based on their properties of solid	l, liquio	d, gas.		the white board			
Bloom's Taxonomy Cognitive Lev	<b>/el:</b> cre	ate		Above Proficiency:			
				<ul> <li>Students can write dif</li> </ul>	ferent i	materials down that	
			they come up with on their own				
			• Students can write a brief description as to how				
				they know a material	is categ	orized in a certain	
			way				
			<ul> <li>Students can help explain their thought process</li> </ul>				
				and knowledge to and	ther st	udent during turn	
				and talks	viner st		
		Approaching/Emerging Proficiency:					
				• Students can use the	teacher	's white board for	
				ideas and then add or	nto ther	n	
				Students can use the	hook to	guide them to	
				Students can use the	matari	ble and naming what	
				they are	materia	ais and naming what	
				they are			
				Students can start to e	explain	now they know that	
				a material is categoriz	ed in a	certain way	
			Modalities/Learning Preferences:				
				<ul> <li>Visual through road:</li> </ul>	na info	mation in a book	
				<ul> <li>visual - through reading</li> </ul>			
				looking at the informa	ition or	i the t-chart/board,	

## Lesson Plan

		<ul> <li>and looking at the information on the properties chart</li> <li>Kinesthetic - actually moving around and pretending to be the particles of a solid, liquid, or gas (in a safe way with our masks on)</li> <li>Auditory - listening to their partners and themselves read aloud to each other, listening to the class discussion when discussing different materials and categorizing them, and listening to their peers during turn and talks.</li> </ul>
<ul> <li>Classroom Management- (grouping(s), movement/transitions, etc.)</li> <li>Attention getter <ul> <li>(give me, hold up amount of fingers)</li> <li>Eyes and ears on me in three, two, one</li> <li>Back to your seats in five,, one</li> </ul> </li> <li>When students will be seated at their tables and have a voice level of 0 during instruction time</li> <li>Students should have nothing on their tables until asked to get their science notebook and pencil out <ul> <li>if they have something on their table, then I will ask the students if their job is to be listening or to have materials out right now</li> </ul> </li> <li>Teacher will use the "give me" method to gain the student's attention back to start cleaning up</li> <li>After turn and talks, I will call the students back to me by saving, "eyes on me in 5, 1"</li> <li>When students will be moving into groups for the reading activity with their peer, they will be except to move quietly, safely, and efficiently</li> <li>Teacher will share out how many minutes the students have left so they can pace themselves while reading through their book with their peer</li> <li>When I need to get the students attention back, I will call out "class, class" for them to reply "yes, yes"</li> <li>Repeat if needed</li> <li>Students will use voice level 1 while they are reading with their partners and also during the pair and share time</li> <li>If a student is talking out of turn or during instruction, the teacher will remind them that she only wants to hear from students who raise their hand</li> </ul>		<ul> <li>Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.)</li> <li>Students will not blurt out when teacher is talking</li> <li>Students must have whole body listening (listening with their eyes and ears)</li> <li>Students must not lay their heads on the table when teacher is talking</li> <li>Students must raise their hands when they want to answer a question</li> <li>Students will work independently when they are creating their T-chart</li> <li>During turn and talks, students must participate with their peers</li> <li>Students must be working, and if they have a question they may ask a neighbor for help or raise their hand so a teacher can help</li> <li>Students must participate during the reading time with their partner. They can choose if one partner reads the whole section or if they take turns, as long as they are active listeners and/or readers.</li> <li>Students must come back to their seats and put their books back when they are called in by the teacher</li> <li>When students are helping their peers, they will be expected to be on task and help guide their classmates to the answers, not just tell them the answers</li> </ul>
Minutes	Procedures	
	<ul> <li>Set-up/Prep:</li> <li>Set up books on every other table</li> <li>Have markers accessible at the front of the room</li> <li>Video up and ready - <u>https://thewonderofscience</u></li> </ul>	at the white board .com/phenomenon/2018/7/9/supercooled-water

Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.)					
• Start with the video					
<ul> <li>https://thewonderofscience.com/phenomenon/2018/7/9/supercooled-water</li> </ul>					
• This video shows a bottle of water changing from a liquid to a solid					
<ul> <li>"Scientists, today we may not be doing this same experiment, but what kinds of properties did you</li> </ul>					
see or are within the video?"					
<ul> <li>(liquid - water solid - ice and air in the car - gas)</li> </ul>					
• "Today learners, we are going to be talking about states of matter"					
Explain: (concepts, procedures, vocabulary, etc.)					
<ul> <li>Vocabulary - states of matter, solid, liquid, gas, property</li> </ul>					
• Teacher is going to start the lesson out by handing out every other table with a set of books - the students					
who have books with find someone who does not have a book to be their reading partner					
<ul> <li>Students are going to read the pages pg. 21-25</li> </ul>					
• Students can choose if only one partner wants to read the whole thing while the other partner					
listens, if they want to talk turns, etc.					
<ul> <li>Students must stay on task and they should be an active listener or an active reader when they are</li> </ul>					
participating in this group work					
<ul> <li>Students will have about 15 minutes to read though this section of the book</li> </ul>					
■ If students get done early - then teacher will pose them with the guestion to pick out what					
they think is the most important information from each section of the reading					
• Teacher will use a time check and count down to see how many minutes students need and/or tell					
them how much time they have left in their neer reading					
<ul> <li>During this time, the teacher will walk around and talk with the students and as them different</li> </ul>					
auestions					
<ul> <li>Teacher will use an attention getter to reign the students back in - teacher will also ask students to return to</li> </ul>					
their original seats in the classroom					
<ul> <li>After the students have done the neer reading, the teacher will write the words solid, liquid, and gas on the</li> </ul>					
board Teacher will ask "What do these words mean? What is the relationship between these words? How do					
you know if something belongs within this property?"					
• Have the students do a turn and talk for about 2 minutes					
<ul> <li>Give students a countdown (ev: you have about 20 seconds left in your group discussion)</li> </ul>					
<ul> <li>Call students back in with an attention getter</li> </ul>					
<ul> <li>Call students back in with an attention getter</li> <li>Reminder that voices are at a level 0 now if needed</li> </ul>					
<ul> <li>Here students take out their science notebooks and make a T chart with the words solid liquid and gas</li> </ul>					
<ul> <li>Take students take out their science notebooks and make a renart with the words solid, liquid, and gas</li> <li>Teacher draws out a t chart on the heard as well</li> </ul>					
<ul> <li>"Scientists, when I am thinking about these states of property I am wondering to myself how I know</li> </ul>					
that compating can be estagorized into a contain state of property When I am thinking of earbon					
diaxide, how do I know what property it helengs under? Why is a gas a gas? How do you know?"					
aloxide, now do r know what property it belongs under: why is a gas a gas: now do you know:					
■ For example Tknow water is a liquid because it doesn't have a definite shape.					
<ul> <li>Give the students about 2-5 minutes to discuss dimercin deas and now they know when to categorize competing under a contain state of property.</li> </ul>					
"I compare now that you have discussed different ideas of how you know to categorize compating under solid					
<ul> <li>Learners now that you have discussed different deas of now you know to categorize something under solid,</li> <li>liquid, gas which are different states of matter, what are some things that you have discussed?"</li> </ul>					
iquid, gas which are different states of matter, what are some things that you have discussed:					
<ul> <li>Students are going to write down a couple examples thick feath category of the write board</li> <li>Students are going to take notice with the transfer using their T shart in their science notabook</li> </ul>					
"Now scientists, you are going to add at least two thoughts or ideas into each category onto your own T shart					
<ul> <li>Now scientists, you are going to add at reast two thoughts of ideas into each category onto your own't chart.</li> <li>You can use your back for a resource if you need to research comething."</li> </ul>					
You can use your book for a resource if you need to research something.					
Explore: (independent, concrete practice/application with relevant learning task -connections from content to					
real-life experiences, reflective questions- probing or clarifying questions)					
• The learners are going to add onto their t chart explaining ways on how they know something is a solid liquid					
or gas					
<ul> <li>Students can list examples of these different states of matter as well</li> </ul>					

<ul> <li>Prompt students with questions - "Learners, ho What are solids made up of? What are liquids m</li> <li>Since this is an introductory lesson, the studen</li> <li>Students will be exploring different s to measure different matter, etc.</li> <li>"Scientits, before you get ready for lunch, I wan of matter that you have used under the T chart once I have given you a marker. When you are d</li> <li>Review (wrap up and transition to next activity):</li> <li>"Scientists, today we were introduced to three s down now in our science journals with some fac continuing to learn about different aspects abou away and ready for Mr. Silbernagel instructions.</li> </ul>	w do you know is? What is telling you that? hade up of? Gas?" ts will be exploring more of this idea on Friday's lesson tates of matter with water and salt. They will be using scales t each of you to come up and write something under one state you created. I will have you come up and write something lone with your marker, pass it on to another classmate."
<ul> <li>Formative Assessment: (linked to objectives)</li> <li>Progress monitoring throughout lesson- clarifying questions, check-</li></ul>	Summative Assessment (linked back to objectives)
in strategies, etc. <li>T chart - teacher will look in the student's science notebook at</li>	End of lesson:
their t chart to see if they are understanding the difference	For this lesson plan there will be no summative
between the states of matter <ul> <li>Teacher will check to see if there are at least 2</li></ul>	assessment. The students will be continuing to work on
comments under each state of matter <li>Teacher will check to see if the students wrote reason:</li>	this subject during the next science lesson on Friday and
and not just objects that belong under each state of	they will have a summative assessment that follows that
matter <li>Teacher observation when the students came up to the write</li>	lesson. The students are just being introduced to the topic
board to write their answer for the class and also listening in on	and were only formatively assessed.
different conversations during turn and talks <li>Consideration for Back-up Plan:</li>	If applicable- overall unit, chapter, concept, etc.:

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

For this first science lesson, I felt like it was a little bit "blah". Since the fifth grade students switch classrooms for science and social studies class I modeled what I taught from what I observed the other fifth grader teacher doing. For this particular day the students were just begging the unit on solid, liquid, and gas and the students also start each section from reading from their textbook. If I were to teach this lesson again I would have not had the students read from their tests books together. I feel like this can be boring for some of the students or some students might not understand the context of what they are reading. I would come up with something more interesting for the students to learn about solid, liquids, and gases. If I would teach this lesson again I would like to come up with more of a group discussion and I would introduce this topic but having different materials in front of me as solid, liquid, and the "gas"/oxygen around me. I would also have created a powerpoint for the students so we have gone over these words and terms together. I should have taken the information from their books and created something more engaging where we could have had more of a class discussion about this topic. This lesson still doesn't sit right with me because I feel like I did a disservice to the students about having to read from a textbook and then I expected them to learn. Out of all my lessons this semester, I wish I could redo it in a different way. On the flip side of things, what I did like about this lesson is the fact that I had the students create a "triple T" chart. This helped students organize their ideas and thoughts. Before the students created these charts, our class discussed what it is that makes a solid, liquid gas a solid, liquid, and gas. The students had many ideas before they were able to create their t chart. I also liked at the end of the lesson how the students each had the opportunity to write up two ideas under two categories on stating whether it was a solid or a liquid. I like this last activity since it was an introductory activity. I was able to see the student's understanding of what solids, liquids, gases were and their reasoning for defining each of these categories. If I were ever going to do this activity again, I would change over half of this original plan before I thought it!