	Inree State	es of Matter
Grade: 2		Subject: Science
	: Tarp, 4 empty plastic water bottles, water, a balloon, er tablets, a marble, anchor chart	Technology Needed: N/A
Instructio	nal Strategies:	Guided Practices and Concrete Application:
ContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContractContract<	nology integration 🗧 Modeling	<ul> <li>Large group activity</li> <li>Independent activity</li> <li>Pairing/collaboration</li> <li>Simulations/Scenarios</li> <li>Other (list)</li> <li>Explain:</li> </ul>
Standard(s) 2-PS1-1 Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.		Differentiation Below Proficiency: For students below proficiency, I will carefully watch to see if they understand the content as I am teaching.
Objective(s) By the end of this lesson, students will be able to name and identify the 3 states of matter: liquid, solid, and gas through observing each state and completing an activity. Bloom's Taxonomy Cognitive Level: Remember, Understand		<ul> <li>Above Proficiency:</li> <li>Students above proficiency will be able to help with different parts of the lesson to increase their engagement in the lesson.</li> <li>Approaching/Emerging Proficiency: Students approaching proficiency will be able to partake in the lesson and have equal chances of being called on.</li> </ul>
		Modalities/Learning Preferences: Kinesthetic- Game that involves students being each state of matter. Visual- Anchor chart of the states of matter.
movemen	m Management- (grouping(s), ht/transitions, etc.) ents will be expected to transition calmly.	<ul> <li>Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.)</li> <li>Do not crush water bottle as you are passing it around the circle.</li> <li>During the game, students will be expected to stay within the boundaries.</li> </ul>
Minutes	Procedure	es
45	<ul> <li>Set-up/Prep:</li> <li>1) Create anchor chart for the states of matter (30 mins).</li> <li>2) I will have 3 plastic water bottles. The first one will be half-way filled with water. The second will simply contain air. The third will have one marble with no water.</li> <li>3) I will have a tarp set up under a table to keep any potential spill contained. On the table, I will have a water-bottle that is half full, alka-seltzer tablets, and a balloon.</li> </ul>	
3	<ul> <li>Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.)</li> <li>1) After Paige finishes her activity, I will ask the students to have a seat in the learning area. If students are not yet finished with their distance learning they will be excused from coming to the learning area. Otherwise, students will be expected to come to the front. Once the students are gathered, I will begin.</li> <li>3) I will take my 3 plastic water bottles with different contents and show the students. <ul> <li>a) "As you all can see, I have 3 water bottles. Each water bottle has something different inside of it. I would like each of you to carefully observe (or look at) each one. What happens when you tilt the water bottles? What happens when you gently shake the water bottles? These are the kinds of questions I would like you to ask yourselves as they are passed to you. Please be gentle as you are observing. Does anyone have any questions?" *I will answer any questions that might arise and then I will pass out the water bottles.*</li> </ul> </li> <li>3) Once the water bottles have made it to each student I will ask my fellow teachers to collect them. "Alright! Can anyone raise their hand and tell me what they noticed about the water bottles? <ul> <li>a) E.g. of what they might have noticed: the water bottle was only half-full of water, as the water moved in the bottle it changed shape, the marble did not change shape when it was in the water bottle, etc.</li> <li>b) A mistake they might make is thinking that the water bottle with nothing extra is empty. If this is indeed brought up, I will explain that it is not empty. In fact, it is full. Full of air. We cannot see it but it is there.</li> </ul> </li> </ul>	
15	Explain: (concepts, procedures, vocabulary, etc.) 1) "Thank you so much for your observations! In each v	water bottle we had different materials. Did you notice how the ? It does not matter how I hold it (up, down, sideways, etc.) the

<ul> <li>marble does not change. It moves around but it does not look any different. What about the water bottle straight upwards, the water fills the bottom of the water bottle. And when I tilt the water bottle, the water bottle straight upwards, the water bottle in base water bottle looked prety empty compared to the other how, doin't if 'Well, tunny enough, that water bottle is actually full, it is full of at, Aris's hard to see, but it's definitely there.</li> <li>2) the water bottle is actually full, it is full of at, Aris's hard to see, but it's definitely there.</li> <li>2) the doing a speak. From the air they bottle how the exploy the thorocode with the water bottle.</li> <li>3) "The first one ve saw was the soid. What do we know about solids from the marble inside of the water bottle."</li> <li>4) "The first one ve saw was the soid. What do we know about solids from the marble inside of the water bottle."</li> <li>4) Solids do not change shape.</li> <li>B) Feel hard.</li> <li>(Referencing my anchor chart) "Do you see how under the big word "Solid" there is a circle with a bunch of themy tiny circles suck together it log under solids do not change there is no space in-between the circles. No room for them to move around. This shows that solids do not change there shape. The marble nolded all around nied of that water bottle, which water bottle,</li></ul>		
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1	<ul> <li>Review (wrap up and transition to next activity):</li> <li>1) Still around the table, I will tell the students: "The states of matter are part of our every day lives. Without the solid of food, we cannot eat. Without the liquid of water, we cannot stay properly hydrated. Without the gas of air, we cannot breathe.</li> <li>2) "That is all today for the states of matter. We have a little time before we go to snack. If you have not finished your distance learning work, please go work on it. Otherwise, you can find a game to play."</li> </ul>		
	e Assessment: (linked to objectives)	Summative Assessment (linked back to objectives) End of lesson:	
Progress monitoring throughout lesson- clarifying questions, check-		End of lesson.	
•	egies, etc.		
I will ask questions regarding the states of matter throughout. Based on student age level, I will expect different answers. E.g. Kindergartners will be expected to know that there are three states of matter and can list 1 vs. 5 <sup>th</sup> graders will be expected to know that there are three states of matter and can list examples of each state of matter.		If applicable- overall unit, chapter, concept, etc.:	
Conside	eration for Back-up Plan:		
Reflection (What went well? What did the students learn? How do you know? What changes would you make?): What went well during this lesson was the engagement of the students. They asked questions, they answered my questions, they wanted to share their thoughts, they had good comments, and they were attentive to what I was saying. At one point, I had to tell the students that we had to move on to the next state of matter because we had spent a lot more time on one than I had anticipated.			

students that we had to move on to the next state of matter because we had spent a lot more time on one than I had anticipated. Another thing that went well was the experiment that we did at the end. While it did not directly benefit the lesson, it was something to show the students that the states of matter can be fun. I believe that for an introductory lesson the students left with a basic understanding of the 3 states of matter. I know this because of the activity we did where the students were the states of matter. I also know this because I asked them for examples at the end, and they were able to answer the questions I asked. Everyone seemed to enjoy it and I am proud of how well it went.

If I were to teach this lesson to students of such a variety of ages again, I would try to differentiate more than I did. I believe that while I did my best, I could have done better. I tried to simplify the material enough where the younger students were able to understand and the older students were engaged. While I succeeded in keeping the older students engaged, looking back, I think I was more focused on engagement for the older students rather than actual learning. I could have had the older students help more or had more in-depth content for the older students. I had considered explaining the experiment to the students, but I thought that gravitated away from the 3 states of matter and into a whole different concept. I also could have involved my fellow teachers more. I do not feel like I utilized their presence as much as I could have.

Overall, I felt confident, comfortable, and prepared. I spent time prepping and I think it paid off. I was nervous that the time would go by too fast but the time was right on track. Next time I will focus less on engagement and more on learning.

Appendix A:

