	Date: February 26, 2021				
Grade: Firs	st	Subject: Physical Science			
Materials:	Transparent, Translucent, opaque, reflective posters and	Technology Needed:			
objects. Tr	ansparent, Translucent, opaque, and reflective kits for the				
students. 1	They will be in groups – so maybe make 8 kits to be sure to				
have enou	gh. Flashlights for each group. Various objects of				
transparen	nt, translucent, opaque, and reflective materials.				
Instruction	nal Strategies:	Guided Practices and Concrete Application:			
	instruction				
	d practice cooperative learning	□ Large group activity □ Hands-on			
	tic Seminar	Independent activity Technology integration			
		Pairing/collaboration Imitation/Repeat/Mimic			
	0	Simulations/Scenarios			
Lectur	•	Other (list)			
	ology integration Modeling	Explain:			
Other	(list)				
Standard(s	;)	Differentiation			
	rformance Standard 1-PS4-3: Plan and conduct an	Below Proficiency:			
	estigation to determine the effect of placing objects made				
	the different materials in the path a beam of light.	Above Broficionav:			
		Above Proficiency:			
Objective(-	Approaching/Emerging Profisionau			
By the end of the lesson, students will be able to determine		Approaching/Emerging Proficiency:			
	nt, translucent, opaque, and reflective of objects made of	Madalities // coming Profession			
amerent n	naterials by using a beam of light.	Modalities/Learning Preferences:			
		 Visual: Students will watch a Mystery Doug video. I 			
Bloom's Ta	axonomy Cognitive Level: Understanding	will display it on the active board.			
		 Auditory: Students will listen to the video. 			
		 Kinesthetic: The hands-on activity where they sort 			
		objects.			
		Tactile: The moving around while sorting objects into			
		transparent, translucent, opaque, and reflective.			
Classroom	Management- (grouping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to			
		the lesson, rules and expectations, etc.)			
listening to the speaker.		When other are talking. Students are expected not to be			
	Group work – Students are to have voice level of 1 or 2 and	talking.			
		-			
	hould take turns respectively. Students should be focused	 Students are expected to raise their hand if they have a comment or a question. 			
	on the game and not be talking about other things.				
	Students will use flashlights and not shine them in others'	Students are expected to give full attention and listening			
	eyes.	earing to whoever is speaking.			
	ransitions – I will use an attention getter to get their	Students will be working in groups and should be respectful			
	attention to move on to the next activity. I use a timer for	of everyone and when speaking in groups they should only			
e	each round of activities.	hear their group members and no other group.			
	· ·				
Minutes	Procedures				
5	Set-up/Prep:				
	Flashlights				
 Various objects of transparent, translucent, opaque, and reflective Show video on Mystery Science website that explains translucent, transparent, opaque, and reflective. Print out sheets for the chart so students can record their findings. 					
			10	Engage: (opening activity/ anticipatory Set – access prior I	earning / stimulate interest /generate questions, etc.)
			 Explain what translucent, transparent, opaque, and reflective is. Have students turn and talk to see if they can 		
come up with ideas of what objects they think is translucent, transparent, opaque, and reflective.					
		ects to see if the students can tell what it is (transparent, translucent,			
	opaque, and reflective)				
		paque, and reflective objects, bring objects in also (Examples of			
	 different light in nature. Use turn and talks to let students share ideas with each other. 				
		our hand put it by your head to give everyone time to think and then			
1	have them share out what they were thinking.				
1		ts light has on certain objects by determining if they are transparent,			
	translucent, opaque, or reflective.				

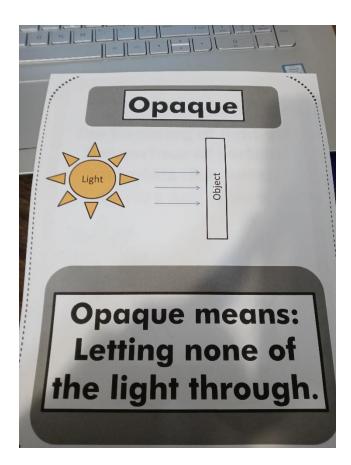
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5	explaining the difference of how light affect	nt, opaque, and reflective. I will have a picture/visual up on the board ts objects that are translucent, transparent, opaque, and reflective. a chance to explore different objects and determine if they are ctive.
20	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) • Students will be exploring different objects with a beam of light (flashlight) to determine if they are transparent, translucent, opaque, or reflective. The objects that the students will be exploring/sorting include: clear cd case, • Students will be given flash cards (vocabulary cards) with Transparent, Translucent, Opaque, and Reflective on them and they will sort the objects under the vocabulary word after determining where they go with a flashlight. • I will engage with the students while they are doing the activity of looking at the various objects with a beam of light (flashlight). • I will ask students questions as to why they put a certain object in that category that they did. Review (wrap up and transition to next activity): • A timer will be set for the activity and I will give reminders of how many minutes are left. Students will return to their seats when time goes off. • I will ask what they liked and what went well. I will use the graph paper to have students determine what objects are transparent, translucent, opaque, or reflective.	
 Formative Assessment: (linked to objectives, during learning) Progress monitoring throughout lesson (how can you document your student's learning?) During activity, I will use turn in talks to share ideas. I will check for understanding of what we are doing with the objects and the flashlights. 		Summative Assessment (linked back to objectives, END of learning) Students will be given a paper with a graph on it and they will determine which object is transparent, translucent, opaque, reflective and they will put a check mark or x in the correct box. Grading Criteria: Students will be able to identify which object is transparent, translucent, opaque, and reflective. I am checking to see if they understand that light affects different objects differently.
This lesson		know? What changes would you make?): nystery science website did not work; technology problems, so I did objects along with mini-posters that explained what they were. So th

three and did pretty good about taking turn with the flashlight. We did not have time for the Challenge part of the lesson but if I would have been there longer, I would have taught that part afterwards and the students would have enjoyed that as well. The students did a short mini-quiz for the summative assessment part at the end after they explored the materials.

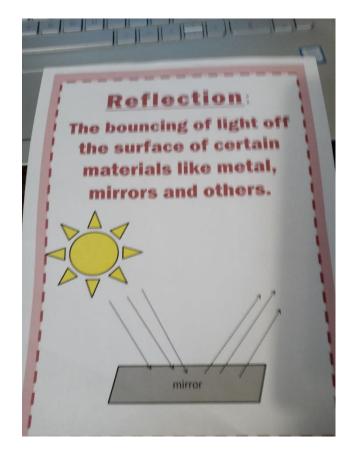
students got to see the differences between them. Then they did get to explore with other objects with a flashlight. They were in groups of

any Steiner











Challenge!

Name:____

Use your given objects to complete the challenges. Use your knowledge of light to fill in the blanks.

Transporant
Transparent
Translucent

- 1. Redirect a beam of light.
 - a. Material that can redirect light is called _____
 - b. What material did you use?_____
 - c. Check your understanding, describe what happened.

- 2. Block a beam of light.
 - a. Material that no light can pass through is called

c. Check your understanding, describe what happened.

b. What material did you use?_

- 3. Make a beam of light less bright.
 - a. _____ material only lets some light pass through.
 - b. What material did you use?_____
 - c. Check your understanding, describe what happened.

4. Put something in front on the beam that the light can pass through.a. If the light can pass through the material, it is

b. What material did you use?_____

c. Check your understanding, describe what happened.