## **Ashley Wanner**

Grade: 4 <sup>th</sup>		Subject: Science
Materials: 2 pieces of construction paper, 12 inches of tape, and a scissors		Technology Needed: None
Instructional Strategies:		Guided Practices and Concrete Application:
☐ Direct instruction ☐ Peer teaching/collaboration/		☐ Large group activity ☐ Hands-on
☐ Guide	d practice cooperative learning	
	tic Seminar	☐ Independent activity ☐ Technology integration ☐ Pairing/collaboration ☐ Imitation/Repeat/Mimic
☐ Learni	ing Centers   PBL	
☐ Lectur		☐ Simulations/Scenarios
	ology integration   Modeling	Other (list)
□ Other	3 - 3 / 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	Explain:
	(1.00)	
C1 1/ -	1	Differential or
Standard(s)		Differentiation
4-ETS1-1: Define a simple design problem reflecting a need or a want		Below Proficiency: In a group with high flyers.
that includes specified criteria for success and constraints on		About Ducticion of Theorem to figure out a month made the
materials, time or cost		Above Proficiency: They have to figure out a way to make the
		longest chain they can with limited materials.
Objective(s)		According to the Control of the Cont
The students will construct a paper chain the longest they can while		Approaching/Emerging Proficiency: Giving them a broad
having it not break.		spectrum to figure out how to create the longest paper chain.
		No. dellates /Learning Desfaura and March atte
Bloom's Taxonomy Cognitive Level: Construct		Modalities/Learning Preferences: kinesthetic
Classroom Management- (grouping(s), movement/transitions, etc.) Behav		
The students will quietly think of a strategy themselves at their		Behavior Expectations- (systems, strategies, procedures specific to
		the lesson, rules and expectations, etc.)
		When they think to themselves, their voice is to be at a zero, but
high flyers and low flyers).		when they are in groups the voice level can be brought up to a 2. The
		rules are that they can only use the 3 materials provided for them.
Minutes	es Procedures	
2 mins		
	Getting the materials ready (construction paper, tape, and scissors)	
5 mins	5 mins Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) Asking them what they think the word strategy means. Tell them that they will be thinking of a strategy to create the longest paper chain.	
	Asking the question "what do you think your team should do to create the longest paper chain out of the other groups in the	
	class?".	
35 mins	ns Explain: (concepts, procedures, vocabulary, etc.)	
	Strategy: a plan or action to accomplish something.	
	The students will then think to themselves about a plan they think would work best, and then I will separate them into groups	
	that I created.	
	They will then have 30 minutes to complete the task, but half way through I will say you can only use your right hand and they	
	will have to figure out how to work together.	
5 mins		
	experiences, reflective questions- probing or clarifying que	estions)
	Each person will think by themselves how they think will be the best way to construct the tape chain. Ask what they think the	
will have to do since everyone in the group can only use one arm.		ne arm.
5 mins	, , , , , , , , , , , , , , , , , , , ,	
	Measure the tape chains to see which one of the groups has the longest. If it breaks when we measure, the group chooses what	
	piece they want me to measure.	
	Ask them what strategies the winning team used to create the longest chain.	
Earmativa		
	Assessment: (linked to objectives)	Summative Assessment (linked back to objectives)
	Assessment: (linked to objectives) monitoring throughout lesson- clarifying questions,	End of lesson:
Progress check-	monitoring throughout lesson- clarifying questions,	
Progress check- in strateg	monitoring throughout lesson- clarifying questions, gies, etc.	End of lesson: At the end of the lesson, students will see which one is longer.
Progress check- in strateg	monitoring throughout lesson- clarifying questions,	End of lesson:

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Consideration for Back-up Plan: Possibly give them another 6 inches of tape.

This is just a fun activity before they start a new chapter, so by the end of the activity they would have learned to work together and figured out a way to make something out of certain materials they were given.

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

Overall, my lesson was very fun. I think it was good that I started off by talking about strategy and what it means. Letting the students think about it individually and then as a group was a good way to approach it. The paper chains went very well, all the students understood the concept and each group had a different way of approaching it. The students learned what method worked best to make the longest paper chain. Cutting the pieces of paper and tape thin was the best approach to win the longest chain. When we declared who the winner was, the class as a whole talked about what methods the winning team used to create their chain. After thinking about the lesson, I would have added that the students could not talk to each other for the last 5 minutes when forming the paper chain. This would have really made them have to strategize with their team and figure out what to do.