## Lesson Plan Template Date: 10/16/20

Grade: Hig	n School		Subject: Physics	
Materials:			Technology Needed: projector computer/iPad	
Instructional Strategies:			Guided Practices and Concrete Application:	
f Direct	instruction	6 Door tooching (collectoreties (	Survey Fractices and Concrete Application.	
f Guida	d practico	€ Peer teaching/collaboration/	€ Large group activity € Hands-on	
€ Guideo		cooperative learning	€ Independent activity € Technology integration	
€ Socrat	ic Seminar	€ Visuals/Graphic organizers	€ Pairing/collaboration € Imitation/Repeat/Mimic	
€ Learni	ng Centers	€ PBL	€ Simulations/Scenarios	
€ Lectur	e	€ Discussion/Debate	€ Other (list)	
€ Techn	ology integration	€ Modeling		
€ Other	(list)		Fxplain:	
0 0000	(		Explain.	
Stondord(s)			Differentiation	
US DS2 1: Applyze data to support the claim that			Bolow Proficiency: Spand more time with them during the	
HS-PS2-1: Analyze data to support the claim that			berow Pronciency. Spend more time with them during the	
Newton's second law of motion describes the			nomework portion to guide them into solving the problems.	
mathematical relationship among the net force on a				
macrosco	pic object. its m	nass, and its acceleration.	Above Proficiency: Have them explain concepts or how to solve	
		,	the problems to another student who might be struggling just a	
Objective	)		bit.	
Students w	, ill be able to define	projectile motion.		
Students w	ill be able to show t	the trajectory of a projectile.	Approaching/Emerging Proficiency:	
Students will be able to construct a mathematics representation of a			Approaching/ Emerging Pronciency.	
projectile.				
[]			Modalities/Learning Preferences:	
Bloom's Ta	xonomy Cognitive	Level:		
Remember	ing. understanding.	creating		
nemenser		, ci cating		
Classroom	Management- (gro	puping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to	
Students will come into the classroom at their assigned desks. Once			the lesson, rules and expectations, etc.)	
the main part of lecture starts, they will take out their notes and take			Students are expected to behave with respect and to listen when	
notes on the content			others are talking.	
Minutes		Procedures		
	Set-up/Prep:			
	I will need to connect my computer to the projector in order to be able to display my PowerPoint.			
	Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.)			
	Once the students	s walk in the door, Angry Birds the game v	will be displayed on the projector. The class will then play a few rounds of	
	angry birds. After	a few rounds have been played I will brin	g them back and ask them what was happening in the game. I will try to	
	get their own und	lerstanding of projectile motion.		
	I then will tell them to take out their notes because we are going to go over concepts that they are going to want to remember for			
	their future assignments and test at the end of the unit.			
	Explain: (concept	s, procedures, vocabulary, etc.)		
	Intro: I will start off by asking their understanding of vectors and how to use vectors to solve equations for triangles, etc. I then will			
	go into explanation of what is projectile motion/trajectory and understanding the basic definitions. Then will move on to show			
	them how to mat	nematically represent projectile motion.		
	We will do some b	basic problems that they might feel comfo	ortable with as a way to ease into projectile motion. We will solve	
	together the ram	down the ramp and the velocity of the ball as it reached the end of the		
	ramp. Then I will move onto a free-falling scenario to get into the problems of projectile motion. I will first identify that the			
	horizontal velocities and vertical velocities are independent of one another and by using this I will further show them how to solve			
	projectile motion.	. We will do the ball falling off the cliff sce	nario and have them be able to find the time it takes the ball to fall to	
	the ground and to	be able to find the distance from the clif	f that the ball lands at.	

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	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions)			
	They will further explore these concepts in their homework as they are solving for similar problems that we solved together on the board. During this time, they are allowed to work together to come to conclusions together and ask clarification questions.			
	Review (wrap up and transition to next activity): The reviewing of this activity will be reflected in their home	work and over the next days of this unit.		
Formative Assessment: (linked to objectives, during learning)		Summative Assessment (linked back to objectives, END of learning)		
<ul> <li>Progress monitoring throughout lesson (how can you document your student's learning?)</li> <li>I will be asking for a thumbs up if they understand and a thumbs down if they need some other assistance. I also have time allotted to start working on the homework before they leave class that way they can ask questions and have help if needed.</li> </ul>				
Reflection (What went well? What did the students learn? How do you know? What changes would you make?): I think the last few times I taught went way better than the first time. The first time the technology was not working properly, and I was more nervous. But I got more comfortable as time went on and was able to adjust to the students better and spend more time doing something that				

they might have trouble understanding and moving quicker on the easier concepts. I think I would create a scenario to solve for an angry birds' flight. I think that would have completed the angry bird circle and be able to show how this content is relatable.