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Lesson Plan Template

Learning Segment Focus: Mechanical energy

Lesson _1_of_2_ Topic: Science Date__5/2/21____ Grade__6th____

Student Outcomes

Specific learning objectives for	Students will design and construct a model for mechanical energy
this lesson.	 Students will be able to define and identify the source of energy being used
Justify how learning tasks are appropriate using examples of students' prior academic	 Students will need to know and understand how to build something and the basics of motion
learning.	
Justify how learning tasks are appropriate using examples of	 Students who understand the ending results will be able to have a clear understanding on how motion works
students' personal, cultural,	
linguistic, or community	
assets.	

State Academic Content Standards

List the state academic content		
standards with which this lesson is		
aligned. Include abbreviation, number		
& text of the standard(s).		

- 6-PS3-5 Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.
- 6-PS3-2. Develop a model to describe that when the arrangement of
 objects interacting at a distance changes, different amounts of potential
 energy are stored in the system.

Kev Vocabulary

What vocabulary terms/content specific	Potential energy, mechanical energy, kinetic energy, and motion.
terminology must be addressed for	
students to master the content?	

Academic Language Support

What are the **Academic Language Function(s)** (the content and language focus of the learning task represented by the active verbs within the learning objectives/outcomes) and explain how they are utilized in the lesson plan? What planned **Academic Language Supports** will you use to assist students in their understanding of key academic language to express and develop their content learning and to provide varying supports for students at different levels of Academic Language development? How do these supports address all three **Academic Language Demands** (vocabulary, syntax, and discourse)?

1. Each student will have a copy of the directions on how to do the assignment alongside pictures on how to complete it.

Materials

Materials needed by the teacher for this lesson. (such as	Provide a video camera, and a projector
books, writing materials, computers, models, colored	
paper, etc.)	

Materials needed by **students** for this lesson. (computers, journals, textbook, etc.)

Roller coaster template, extra paper, cardboard box for base, scissors, clear tape, marble

Lesson Timeline with Instructional Strategies & Learning Tasks				
Amount of Time	Teaching & Learning Activities (This should be a BULLETED LIST)	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this part of the lesson. (This should be VERY DETAILED)		
5	Introduction:	 Tell the students to get into groups of 3 when they are walking into the classroom Explain how we are going to make roller coasters to show how motion works. Go over the instructions for the project 		
40	Instruction:	 The projector will have an example of the creation I have made from the template so the students can look at it. The students will follow the instructions for the class and make the roller coaster. When the students are done, they will video tape their roller coaster in action on the camera I provide. 		
5	Closure:	At the end of class, I will ask the students to write what the kinetic energy is and the potential energy from their roller coaster.		

Updated 12-12-20 NLC			
Гесhnology Integration			
Provide your rationale for your technology che that accurately reflects those choices within you teaching context. Identify what technology(s) using as part of your lesson plan. Describe how use of technology aligns to your learning object content standards, and central focus. Explain technology-based instructional strategies are e to students accomplishing the learning objective (beyond what could be accomplished without the technology). Specify how the technology selections meet or exceed the needs/strengths of students. Justify the "fit" of chosen technology showing how the content, instructional strategitechnology "fit" together.	you are you are w the ctives, how ssential ves using of all gies,	their creations in a show the students a	era for the students to record ction. I also used a projector to an example of the project I have something to go by.
Accommodations/Modifications			
How might I modify instruction for: <i>Remediation? Intervention? IEP/504?</i>	•		ups, they will be helping each other out. pictures and cognates in the instructions.
LEP/ESL? (All students who have plans mandated by federal and state law.)			
Differentiation			
How might you provide a variety of techniques (enhanced scaffolding, explicit instruction, contextualized materials, highlighters/color coding, etc.) to ensure all student needs are met? (All students who are not on specific plans mandated by federal and state law.)	•	This is a fun student drive if they require it.	en assignment. Students will get what they nee
Assessments: Formative and/or Sum	mative		
Describe the tools/procedures that will be used in this lesson to monitor students'	□ For	mative /X Summative	Students creating and building the roller coaster
learning of the lesson objective(s) (include type of assessment & what is assessed).		native /□ Summative mative /□ Summative	The short summary the student wrong.
Research/Theory			
Explain connections to theories and/or research (as well as experts in the field or national organization positions) that support the approach you chose and justify your choices using principles of the connected	n/a		

theories and/or research.		
Lesson Reflection/Evaluation		
What want wall?	TO DE ELLIED IN A ETED TEACHING	

What went well ?	TO BE FILLED IN AFTER TEACHING
What changes should be made?	
How will I use assessment data for next	
steps?	

Include supporting material such as slides, pictures, copy of textbook, and handouts for any activities students will be using as part of your lesson.

*adapted from: http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-LessonPlan.doc+&cd=2&hl=en&ct=clnk&gl=us; http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx;

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 $\underline{https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplate.docx}$