Glynn County Daily Lesson Plan for MS HS Instruction

Teacher : DuMortier

Course/ Subject: Physical Science

Date of Instruction: May 9, 2024

Opening (I Do)

An engaging process for lesson introduction that is specifically planned to encourage equitable and purposeful student participation. Describe the instructional process that will be used to introduce the lesson.
TKES 1, 2, 3,4,5, 8,10

Standard/s:SP3. Obtain, evaluate, and communicate information about the importance of conservation laws for mechanical energy and linear momentum in predicting the behavior of physical systems.

- **Calculate the kinetic energy of an object.**
- **Calculate the amount of work performed by a force on an object.**

Plan and carry out an investigation demonstrating conservation and rate of transfer of energy (power) to solve problems involving closed systems.

- **explain how the brief application of a force creates an impulse.**

Learning Target:

I can algebraically calculate and graphically represent the work, power and mechanical advantage of various simple machines

Success Criteria:

1. I can define work, force, and displacement, and their correct SI units
2. I can calculate work, force, displacement.
3. I can define power and the correct SI units.
4. I can algebraically solve an equation for an unknown variable.

Introduction/Connection:

How work and power are related…..calculating power and common power units

DIRECT INSTRUCTION:

Rube Goldberg setups

Work Period (We Do, You Do) Students learning by doing/demonstrating learning expectations. Describe the instructional process that will be used to engage the students in the work period. **TKES 1, 2, 3, 4, 5, 7. 8,10**	**GUIDED PRACTICE:** How to set up a Rube Goldberg apparatus
	INDEPENDENT/COLLABORATIVE PRACTICE/DIFFERENTIATION: Students design and brainstorm how to build a Rube Goldberg apparatus
Closing (We Check) Describe the instructional process that will be used to close the lesson and check for student understanding . **TKES : 1,2,3, 4,5,6,7,8**	**SUMMARIZE/CHECK FOR UNDERSTANDING:** Running of Rube Goldberg apparatus