Westside High School - Weekly Plan to Align Lessons (Week At a Glance)

Subject: Physics Date(s): 1/15-1/19

Standard: 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.
a. Ask questions to compare and contrast open and closed systems.
b. Use mathematics and computational thinking to analyze, evaluate, and apply the principle of conservation of energy and the Work-Kinetic Energy Theorem.
• Calculate the kinetic energy of an object.
• Calculate the amount of work performed by a force on an object

Assessment: ☐ Quiz ☐ Unit Test ☐ Project ☐ Lab ☒ None

	Learning Target (What)	Opening *(10 - 15 Mins)*	Work-Session *(20 - 25 mins)*	Closing *(5 - 10 mins)*	Criteria for Success (How)
		*(Include at least one/two Formatives*in any part of the lesson as needed)*			
Monday -					☐ Can I solve kinetic and potential energy problems? ☐ Can I follow procedure to safely collect data? ☐ Can I use data collected to solve for work and power? ☐ Can I explain the law of conservation of energy **Tool(s) for Criteria Success:** ☐ Rubric ☒ Self-Assessment ☐ Checklist ☐ Peer Assessment ☒ Exemplars/Non-Exemplars
Tuesday	I can define different types of energy in real world situations based on changes in physical and chemical energy. I can identify energy transformations in real-life situations I can solve work and power problems	Recap Work/Power equations, symbols, units	Complete practice problems Begin Work-Power Escape Room	Create your own work and power problem.	
Wednesday -	I can distinguish between kinetic and potential energy I can solve kinetic and potential energy problems	Roller Coaster Video, discuss motions	Potential and Kinetic Energy Notes and Discussion; Work Sample Problems	Rewatch video, apply potential and kinetic energy to positions	

Thursday	I can apply the .conservation of mechanical energy to situations	Marble Roller coaster data collection and calculations demo	Discuss and Notes Conservation of energy Roller Coaster Problem Solving Exercises	List situations where conservation of mechanical energy can be seen/measured	☐ Other: _____
Friday			Quiz – Work Power, Potential and Kinetic Energy		

*☒ Exit Ticket/Final Stretch Check ☒ Electronic Tools ☐ Dry Erase Boards – quick checks ☒ Turn & Talk Discussion (verbal responses) ☒ Teacher Observation – document Clipboard ☐ Quick Write/Draw ☒ Annotation ☐ Extended Writing ☐ Socratic Seminar ☐ Jigsaw ☐ Thinking Maps ☒ Worked Examples ☐ Other :_____