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

Subject: Physics Date(s): 1/29-2/2

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 -	I can solve U and KE problems I can analyze data pertaining to U and KE	Recap Conservation of Energy Roller Coaster Problem	Students complete calculations for created Roller coasters		☐ Can I solve kinetic and potential energy problems? ☐ Can I follow procedure to safely collect data? ☐ Can I use data collected to solve for potential and kinetic energies? ☐ 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 solve U and KE problems I can analyze data pertaining to U and KE	List toys that use U/KE Divide the U into types (elastic, gravitational, chemical)	Conservation of Energy Popper Lab	Complete calculations – check point	
Wednesday -	I can explain the transformation from U to KE and back	Show videos of paper roller coasters	Roller Coaster Project Introduction & Explanation, Create plans for project	Create daily log	
Thursday	I can solve U and KE problems I can analyze data pertaining to U and KE	Use created design to count columns and beams	Roller Coaster Day #1 – Students contract their towers	Complete daily journal and next steps	
Friday	I can solve U and KE problems I can analyze data pertaining to U and KE	Gather supplies and check in on progress	Roller Coaster Day #2 – Students contract their towers	Complete daily journal and next steps	

	I can solve U and KE problems I can analyze data pertaining to U and KE	Gather supplies and check in on progress	Roller Coaster Day #3 – Students contract their towers	Complete daily journal and next steps	☐ Other: _____

*☒ 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

Q ☐ Socratic Seminar ☐ Jigsaw ☐ Thinking Maps ☒ Worked Examples ☐ Other :_____