Name:			Grading Quarter:	Week	k Beginning:	
Kevin Woolridge			Q2		W9	
School Year: 2023			Subject: Conceptual Physics and Engineering			
Monday	Notes:	Objective: Students will demonstrate understanding of physics concepts of vibrations and waves, light, and sound including Vibrations of a Pendulum, Wave Description, Wave Speed, Transverse Waves, Longitudinal Waves, Wave Interference Standing Waves, Doppler Effect, Bow Waves, and Shock Waves. With 80% accuracy as evidenced by completion of Waves physics exam. Lesson Overview. • Demonstration laser reflection, "Seeing Sound", including a visual demonstration of resonance, standing waves beats, and interference both constructive and destructive. • Students will continue to work on their "Seeing Sound" project. • Review Chapter 19, 20 and 21.			Essential HS.P4U1.10 Construct an explanation about the relationships among the frequency, wavelength, and speed of waves traveling in various media, and their applications to modern technology.	
Tuesday	Notes:	Objective: Students will demonstrate understanding of physics concepts of vibrations and waves, light, and sound including Vibrations of a Pendulum, Wave Description, Wave Speed, Transverse Waves, Longitudinal Waves, Wave Interference Standing Waves, Doppler Effect, Bow Waves, and Shock Waves. With 80% accuracy as evidenced by completion of Waves physics exam. Lesson Overview. • Hewitt video, Hewitt video, Light and Color: The electromagnetic nature of light and the reason its speed changes when passing through transparent materials are explained. Several demonstrations illustrate the addition of different colors of light. Finally, the colors of everyday things such as the sky, sunset, and ocean are discussed. • Review Readings, Chapter 26, 27, 28, 29, 30 and 31.			Essential HS.P4U1.10 Construct an explanation about the relationships among the frequency, wavelength, and speed of waves traveling in various media, and their applications to modern technology.	
Wednesday	Notes:	Objective: Student concepts of vibrat Vibrations of a Per Transverse Waves Standing Waves, D. With 80% accurace exam. Lesson Overview. Hewitt vid diffuse ref demonstration internal refleading to	ts will demonstrate under ions and waves, light, and ndulum, Wave Description, Longitudinal Waves, Wave pas evidenced by completes, eo, Reflection and Refractilection are compared. Reflection are tank. The street using a water tank. The street using a demonstration of propon to physics project, "Se	rstanding of physics I sound including In, Wave Speed, I sound Speed, I sound Speed, I sound Shock Waves. I stion of Waves physics I stion: Mirrored and I fraction is I he concepts of total I ion are discussed, I erties of a rainbow.	Essential HS.P4U1.10 Construct an explanation about the relationships among the frequency, wavelength, and speed of waves traveling in various media, and their applications to modern technology.	

Thursday	Notes:	Objective: Students will demonstrate understanding of physics concepts of vibrations and waves, light, and sound including Vibrations of a Pendulum, Wave Description, Wave Speed, Transverse Waves, Longitudinal Waves, Wave Interference Standing Waves, Doppler Effect, Bow Waves, and Shock Waves. With 80% accuracy as evidenced by completion of Waves physics exam. Lesson Overview. • Hewitt video, Hewitt video, Light and Color: The electromagnetic nature of light and the reason its speed changes when passing through transparent materials are explained. Several demonstrations illustrate the addition of different colors of light. Finally, the colors of everyday things such as the sky, sunset, and ocean are discussed. • Review Readings, Chapter 26, 27, 28, 29, 30 and 31.	Essential HS.P4U1.10 Construct an explanation about the relationships among the frequency, wavelength, and speed of waves traveling in various media, and their applications to modern technology.
Friday	Notes:	 "Seeing Sound" prototype test day. Objective: Students will demonstrate understanding of physics concepts of vibrations and waves, light, and sound including Vibrations of a Pendulum, Wave Description, Wave Speed, Transverse Waves, Longitudinal Waves, Wave Interference Standing Waves, Doppler Effect, Bow Waves, and Shock Waves. With 80% accuracy as evidenced by completion of Waves physics exam. Lesson Overview. "Seeing Sound" project due date. Complete video presentation, turn in Journal. Presentation, Final Exam review. Review Readings, Chapter 26, 27, 28, 29, 30 and 31. 	Essential HS.P4U1.10 Construct an explanation about the relationships among the frequency, wavelength, and speed of waves traveling in various media, and their applications to modern technology.