



Energy - Learning Targets

Advanced Physical Science 6

	Learning Target	Essential Vocabulary	Mastered on LT CHECK	Mastered on QUIZ	Mastered on TEST
<u>1</u>	I can analyze the trade-offs of using particular products.				
2	I can describe a system in terms of its subsystems and parts, as well as its inputs, processes, and outputs.				
3	I can distinguish between open and closed systems in terms of the flow of energy.				
4	I can compare and contrast waves with different speeds, frequencies, amplitudes, and wavelengths.	<ul style="list-style-type: none"> • Amplitude • Frequency • Mechanical wave • Speed • Wavelength 			
5	I can explain how the vibration of particles in air and other materials results in the transfer of energy through sound waves.	<ul style="list-style-type: none"> • Medium • Particle • Sound wave • Vibration 			
6	I can contrast how fast sound travels through materials with different densities.				
7	I can use wave properties of light to explain reflection, refraction, and the color spectrum.	<ul style="list-style-type: none"> • Absorption • Color spectrum • Electromagnetic wave • Reflection • Refraction 			
8	I can tell the difference between kinetic and potential energy.	<ul style="list-style-type: none"> • Kinetic energy • Potential energy 			
9	I can analyze situations where energy is transferred between kinetic and potential energy.	<ul style="list-style-type: none"> • Energy transformations 			
10	I can identify and trace the changes that occur during energy transformations in everyday situations.	<ul style="list-style-type: none"> • Chemical energy • Electricity energy • Electromagnetic energy • Mechanical energy • Sound energy • Thermal energy • 			
11	I can describe how heat energy is transferred by conduction, convection, and radiation.				

*Underlined Learning Target numbers must be mastered at 80% or higher.