Cornell Notes **111**	Topic/Objective: Mechanical Energy	Name:
		Class/Period:
		Date:

Essential Question: What are the different types of energy? What are the social and economic impacts of energy use?

Questions:	Notes: Mechanical Energy
	Energy is the ability to do _____.
	The unit for energy is the Joule(J). _____ is related to energy.
	The energy of motion is called _____ energy.
	$KE = \frac{1}{2} mv^2$
	A 20 kg object is moving at 5 m/s. What is its kinetic energy?
	Stored energy is called _____ energy.
	We will deal with gravitational potential energy. That is energy an object has because of its _____.

Summary:

Questions:	**Notes:** Gravitational Potential Energy is mgh
	mg is the _____ and h is the _____ off the ground.
	A 25 kg mass is held 10 m above the ground. What is its potential energy?
	What is energy?
	Give an example of work.
	Where did the energy come from to do that work?
	Energy may not be _____ or _____.
	Energy may be _____ from one form to another.
	This is called the _____ of energy.

Summary:

Questions:	Notes: A 20 kg snowboarder at rest is at a height of 15 m. What is their
	potential energy?
	What is their kinetic energy?
	What is their total energy?
	Assume you are still dealing with the same snowboarder. And that they are
	now 10 m above the ground.
	a) What is their potential energy?
	b) What is their total energy?

Summary:

Questions:	**Notes:** c) What is their kinetic energy?
	d) What is their speed?
	When the same snowboarder has reached the ground,
	a)what is their potential energy?
	b)What is their total energy?
	c)What is their kinetic energy?
	d)What is their speed?

Summary: