\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Topic/Objective: The Conservation of Energy	Name:				
		Class/Period:				
		Date:				
Essential Question	on: What is the guiding principle behind the beh	avior of energy?				
Questions:	Notes:					
	P1: Energy is never "used up"	P1: Energy is never "used up" instead it is				
	into another					
	P2: The energy in oil comes from					
	Plants originally came from	while the energy in animals comes				
		When oil burns, the				
	energy is					
	P3: not all of the chemical note	ential energy from the oil was released as thermal				
		P3: not all of the chemical potential energy from the oil was released as thermal energy. Some of the potential energy was released as				
	energy. Some of the potential of	energy. Some of the potential energy was released as				
	"Lost energy" is really	"Lost energy" is really				
	P4/5: The Law of Conservation	n of Energy is				
	P6: This type of energy is almo	ost always lost during an energy transformation				
	An example of this is					
	P7. This type of energy is the n	nost difficult to convert into useful energy				
	1 /. This type of energy is the h	most difficult to convert line useful chergy				

Questions:	Notes:		
	P8/9: Energy Efficiency is		
	An example of energy efficiency is		
	In the car example, only this percent of the original chemical potential energy		
	Actually moves the car		
	P10: Energy Conservation means		
Summary:			
Cummary.			

 Which of the following diagrams accurately applies the Law of Conservation of Energy to a toaster in use? Explain your choice.

a. Electrical energy light sound

b. Chemical potential energy thermal energy light

Choose which choice, a or b, and explain using complete sentences.

2. Your friend tells you that a "generator makes electricity." Do you agree or disagree with her statement? Explain why in terms of the Law of Conservation of Energy.

3. An engine in a car moves the car with mechanical energy. It transforms chemical energy from gasoline into mechanical and thermal energy. What is the efficiency of an engine that produces 70						
% thermal energy? Explain.						

Highly Proficient	Proficient	Close to Proficient	Developing
 Efficiency can be explained thoroughly. Answers show an advanced knowledge of the Law of Conservation of Energy 	 Activity is complete. Can apply Law of Conservation of Energy to various situations Law of Conservation of Energy is understood. 	□ Lab is incomplete □ Answers lack enough detail and evidence to show strong understanding of Law of Conservation of Energy	□ Little to no knowledge of energy is shown □ not attempted