Scier	nce 8
Unit:	Energy

Name _	ANSWER KEY	
Period		

The Nature of Energy Worksheet

Directions: Define the following terms.

Energy – <u>the ability to do work or make a change.</u> (or) <u>Exerting a force over a distance to move an</u> <u>object.</u> ENERGY= WORK ------> WORK= FORCE X DISTANCE

Kinetic Energy- is the energy that an object possesses due to its motion

Potential Energy- is stored energy due to a objects relative height and position, or it chemical natural.

Law of Conservation of Energy- <u>energy cannot be created or destroyed but merely transformed or transferred.</u>

<u>Directions:</u> In the chart below, place an **X** in the column that best describes the kind of energy each object has.

Situation	Kinetic Energy	Potential Energy
1.A stretched rubber band		X
2.Automobile moving along level surface at constant speed	X	
3.Rock at the edge of a cliff		X
4.Wound-up watch spring		X
5.A leaf falling from a tree	X	

Directions: Write the letter next to each definition that best describes the term.

Definition	Term
	A.thermal energy
	B.sound energy
8.all of the kinetic energy due to random motion of the particles that make up an object	C.electrical energy
9.energy of moving electrons	D.radiant energy
	E.nuclear energy
11.energy travels in electromagnetic waves	F.chemical energy