Types of Energy 1 Name _____

Part A: Types of Energy

Definition	**Examples**
Mechanical Kinetic Energy of something moving. (something large enough to touch)	
Gravitational Potential Energy contained in height.	
Elastic Potential Energy contained in something stretched or compressed.	
Thermal Energy of moving molecules	
Chemical Potential Energy contained in chemical bonds within molecules.	

(1 – 8) Which type of energy does each of these things have?

A.1. A very fast moving car:

A.2. A bookshelf on a roof:

A.3. Your lunch:

A.4. Anything with moving molecules:

A.5. A matchbox car that is wound up (matchbox cars have SPRINGS inside them):

A.6. A gallon of gasoline:

A.7. Mr. Kuncik running through the hallways:

A.8. A book that is sitting on the edge of a desk:

Types of Energy 1 Name _____

(**A.9 – A.13**) Draw a picture of each type of energy
A.9. Kinetic:

A.10. Gravitational Potential:

A.11. Elastic Potential:

12. Thermal:

13. Chemical Potential:

Definition	**Examples**
Electrical Energy of moving electrons	
Electrochemical Potential energy Chemical potential energy that can be converted into electrical energy easily; battery	
Mechanical Waves Waves of energy moving through matter, includes *sound*.	
Electromagnetic Waves Oscillating electric and magnetic energy. Includes *light*.	
Nuclear Energy contained in the nucleus of an atom.	

(**A.14** – **A.22**) Which type of energy is each of these?

A.14. Am electrical transmission wire:

A.15. The smallest part of an atom, when it is moving:

A.16. The center of an atom:

A.17. Light:

A.18. AAA battery:

A.19. Somebody banging on the door (energy of the *bang*):

A.20. Waves crashing on the beach:

A.21. All matter has this type of energy, because all matter has mass:

A.22. X-Ray Machine:

A.23. Type of energy used by a cell phone to communicate:

(**A.24** – **A.28**) Draw a picture of each type of energy:

A.24. Electrical Energy

A.25. Mechanical Wave Energy

A.26. Electromagnetic Wave Energy

A.27. Nuclear Energy

A.28 Draw Electrochemical Potential energy