

Forms of Energy

9/30/15

Talk to your group and make a list of all the types of energy that you can think of.

Types of Energy

- Chemical
- Mechanical
- Electrical
- Magnetic



Mechanical



Mechanical

Energy of motion and position

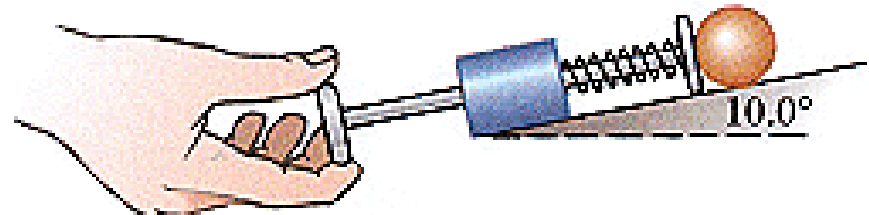
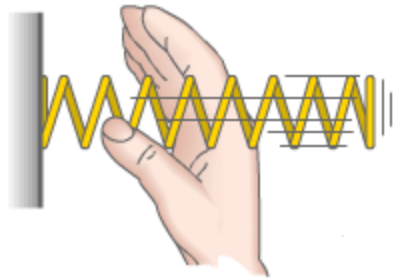
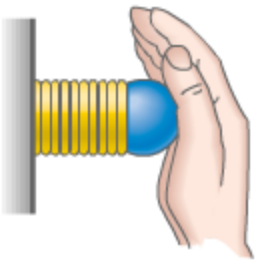
- Kinetic – energy of motion
- Potential – energy of position
 - » potential to move



Mechanical

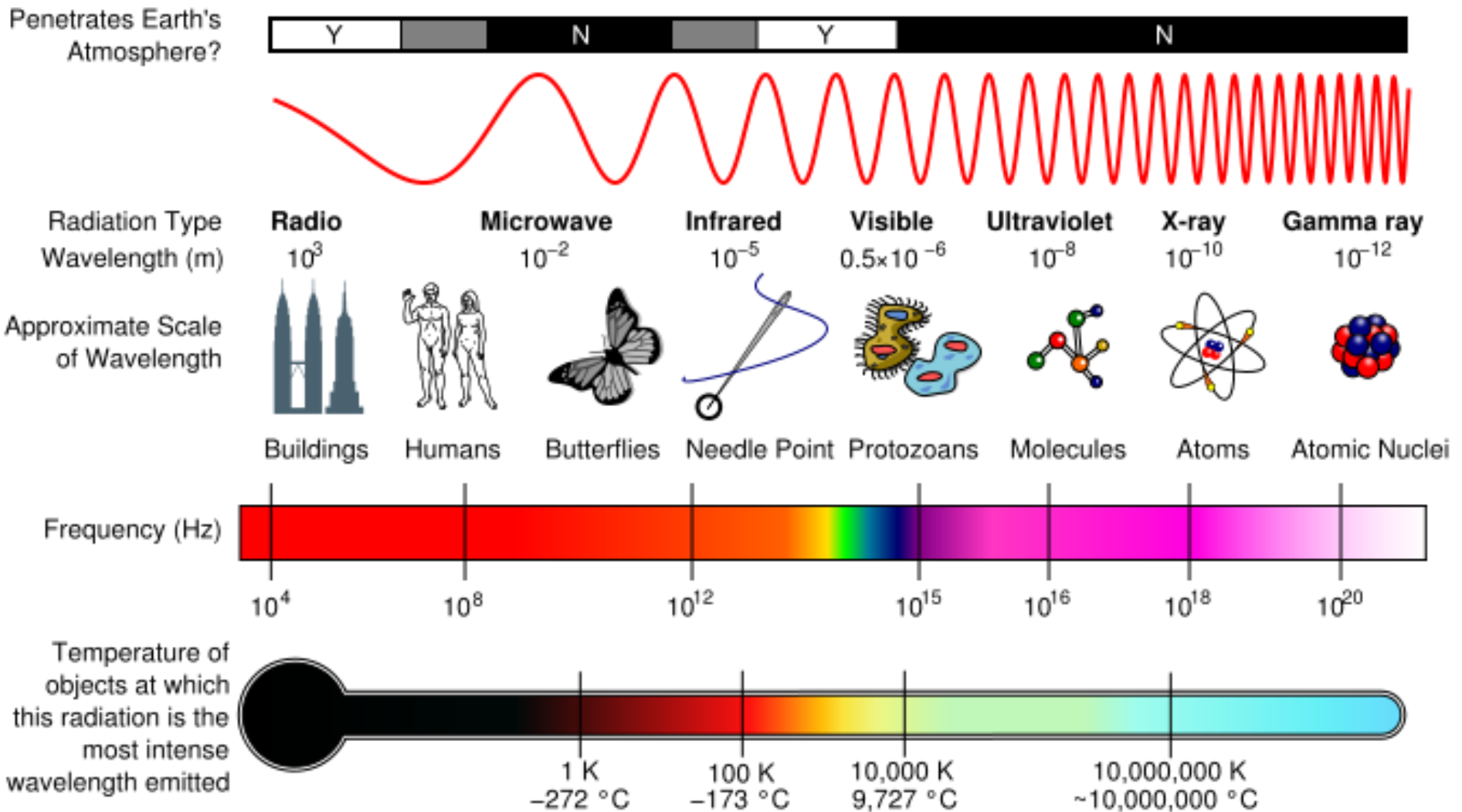
Energy of motion and position

- Kinetic – energy of motion
- Potential – potential to move



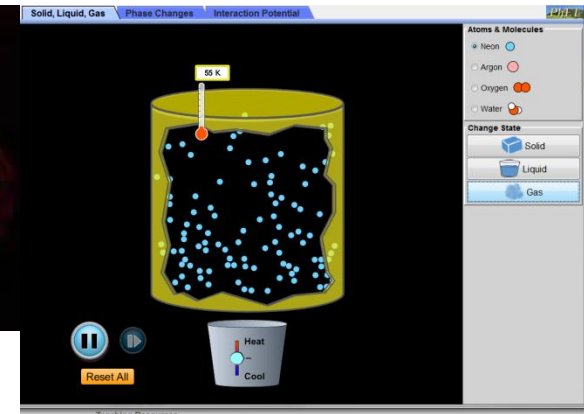
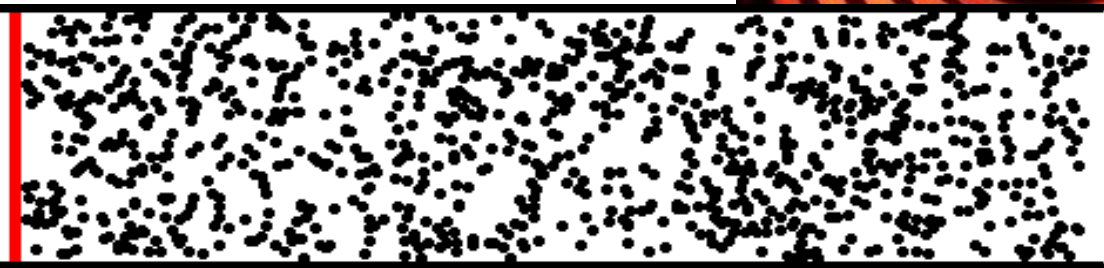
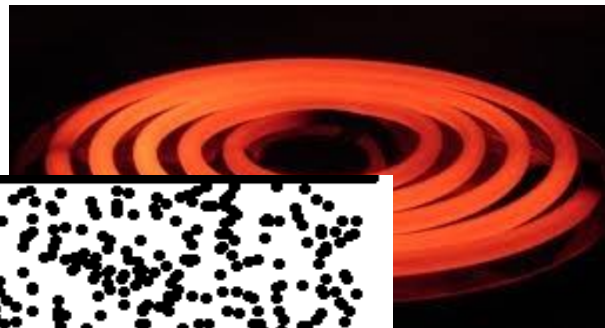
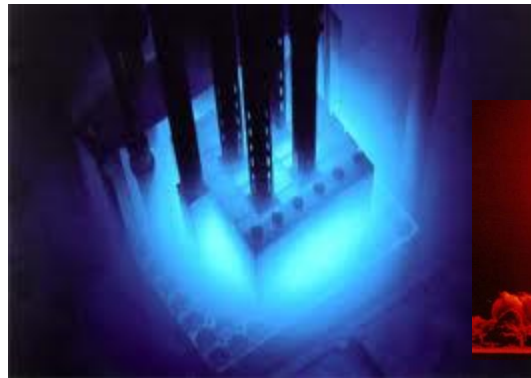
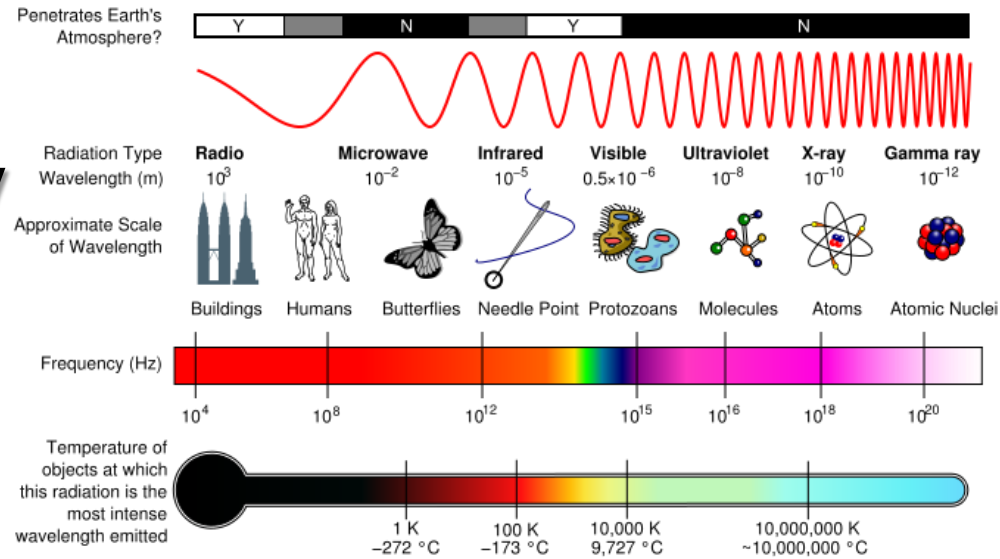
Electromagnetic waves

Here's another representation of Electromagnetic waves. This one shows you examples of the size of the different waves and at what temperature an object must be to emit these waves.



Types of Energy

- Light
- Nuclear
- Thermal
- Sound



Eight Basic Forms of Energy

- Mechanical (Kinetic & Potential)
- Thermal/heat
- Light
- Sound
- Chemical
- Nuclear
- Magnetic
- Electrical

What form is it?

Flowing water?

- A. It is Chemical energy
- B. It is Mechanical energy
- C. It is Thermal energy
- D. It has/carries Mechanical energy
- E. It has/carries Chemical energy



What form is it?

Flowing water?

- A. It is Chemical energy
- B. It is Mechanical energy
- C. It is Thermal energy
- D. It has/carries Mechanical energy**
- E. It has/carries Chemical energy



What form is it?

A Battery contains?

- A. Chemical energy
- B. Electrical energy
- C. Thermal energy
- D. Potential energy
- E. Light energy



What form is it?

A Battery contains?

- A. Chemical energy**
- B. Electrical energy
- C. Thermal energy
- D. Potential energy
- E. Light energy



What form is it?

Wood?

- A. It is Chemical energy
- B. It is Thermal energy
- C. It is Potential energy
- D. It has/contains Chemical energy
- E. It has/contains Thermal energy



What form is it?

Wood?

- A. It is Chemical energy
- B. It is Thermal energy
- C. It is Potential energy
- D. It has/contains Chemical energy**
- E. It has/contains Thermal energy



What form is it?

What form of energy does a banana have?

- A. Chemical
- B. Mechanical
- C. Sound
- D. Light
- E. Magnetic



What form is it?

What form of energy does a banana have?

- A. Chemical**
- B. Mechanical
- C. Sound
- D. Light
- E. Magnetic



What form is it?

What form of energy do the lights in this room give off?

- A. Chemical
- B. Nuclear
- C. Light
- D. Heat
- E. Electrical

What form is it?

What form of energy do the lights in this room give off?

- A. Chemical
- B. Nuclear
- C. Light**
- D. Thermal/Heat**
- E. Electrical

What form is it?

What form of energy does the projector in this room give off?

- A. Thermal
- B. Light
- C. Sound
- D. A and B
- E. A, B and C



What form is it?

What form of energy does the projector in this room give off?

- A. Thermal
- B. Light
- C. Sound
- D. A and B
- E. **A, B and C**



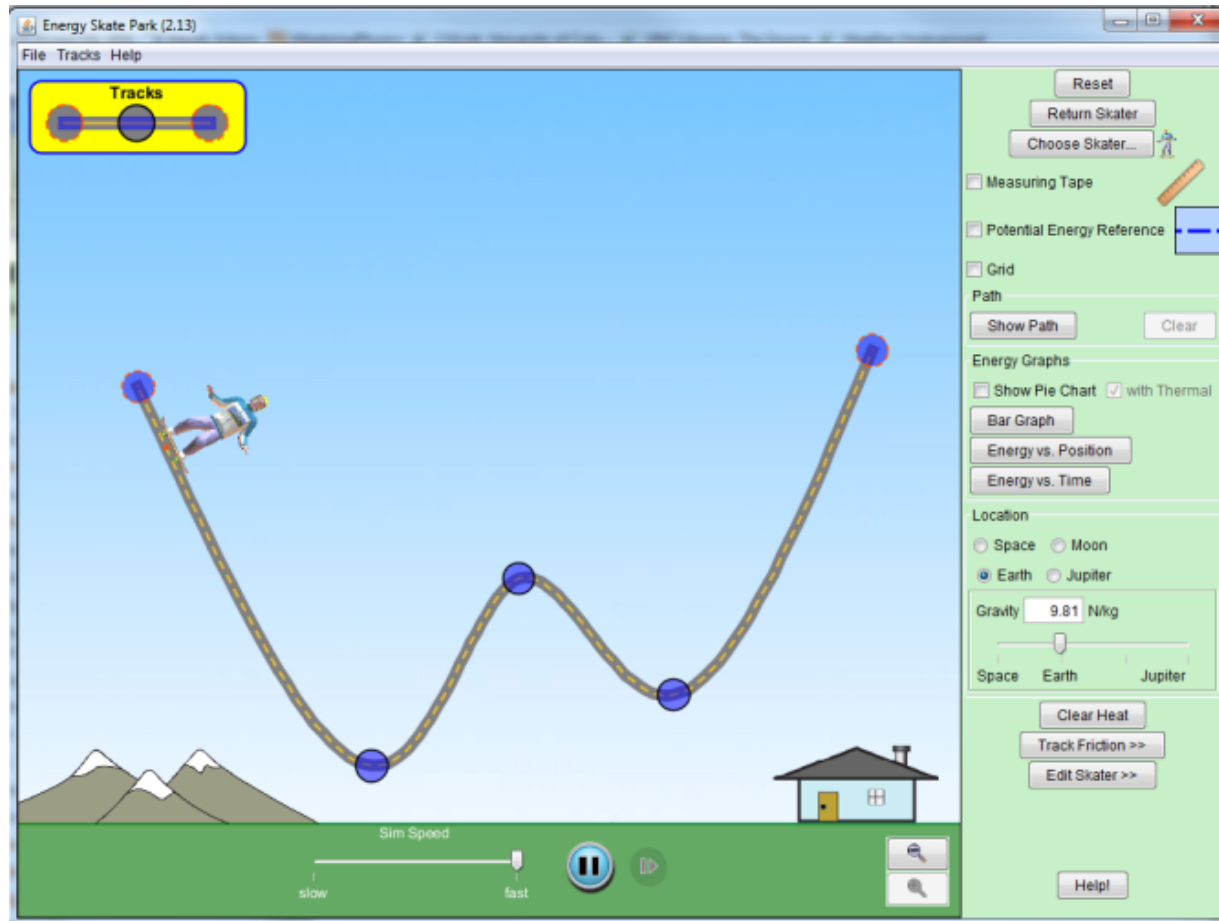
Eight Basic Forms of Energy

- Mechanical (Kinetic & Potential)
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- Chemical
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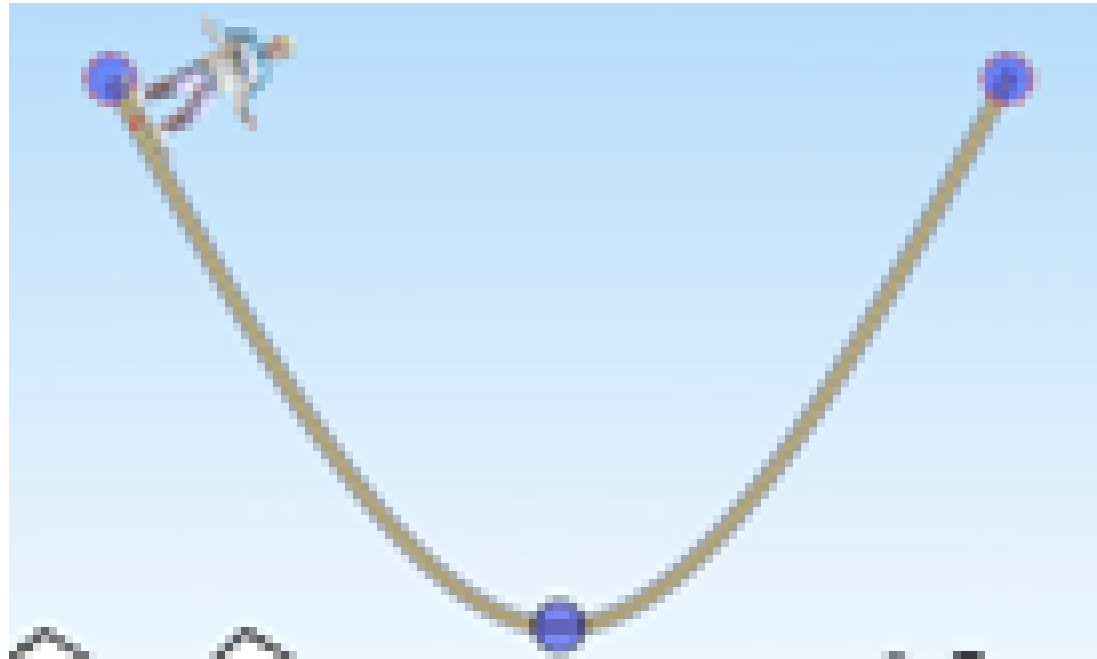
Mechanical



Kinetic and Potential Energy

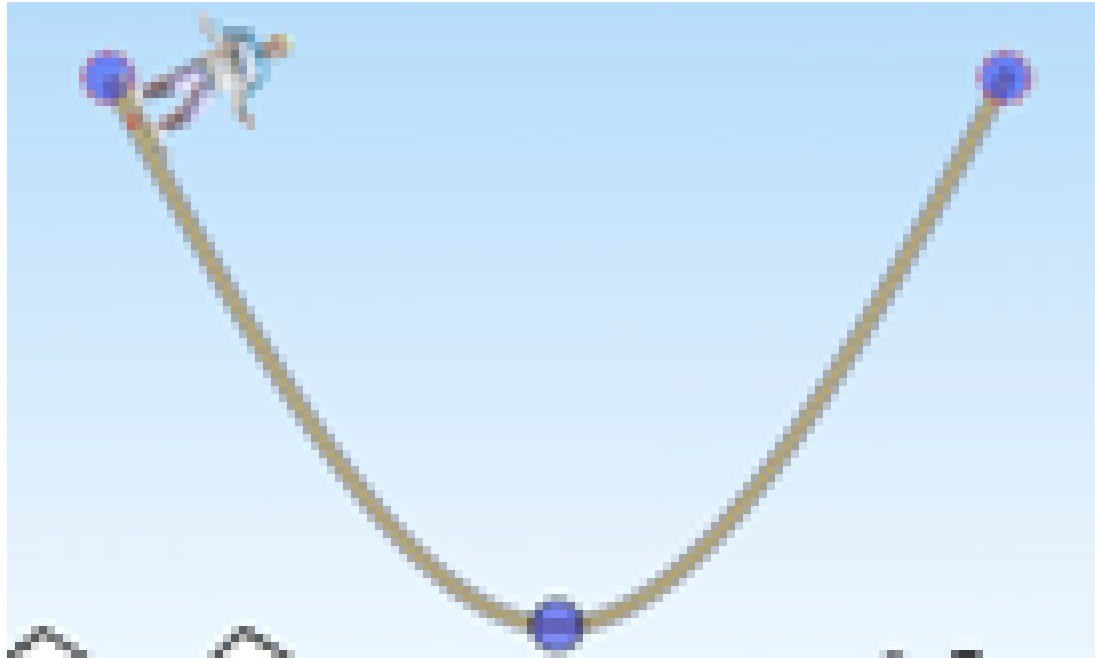


1. If the skater starts at rest at this point, what kind of energy does he have?



- A. Electrical
- B. Kinetic
- C. Potential
- D. None

1. If the skater starts at **rest** at this point, what kind of energy does he have?



- A. Electrical
- B. Kinetic
- C. Potential**
- D. None

2. As he skates across the bottom?



- A. Electrical
- B. Kinetic
- C. Gravitational Potential
- D. None

2. As he skates across the bottom?



A. Electrical

B. Kinetic

C. Gravitational Potential

D. None