

Every moment, your life is made possible by energy converting into different types of energy.

Many of the machines we use work by *changing the form of energy*. Here are some examples.

### B.1. Starting a Fire

A pile of logs	Becomes	A fire. It heats up your hands.
	→	
What type of energy?	→	What type of energy?

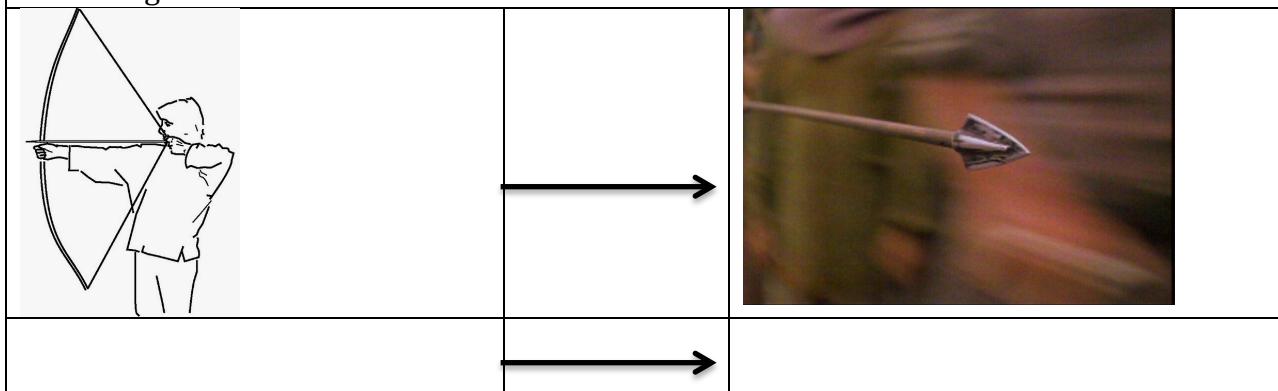
### B.2. A car.

When you put gas in....		It drives!
	→	
What type of energy?	→	What type of energy?

**B.3. Bow and Arrow:**

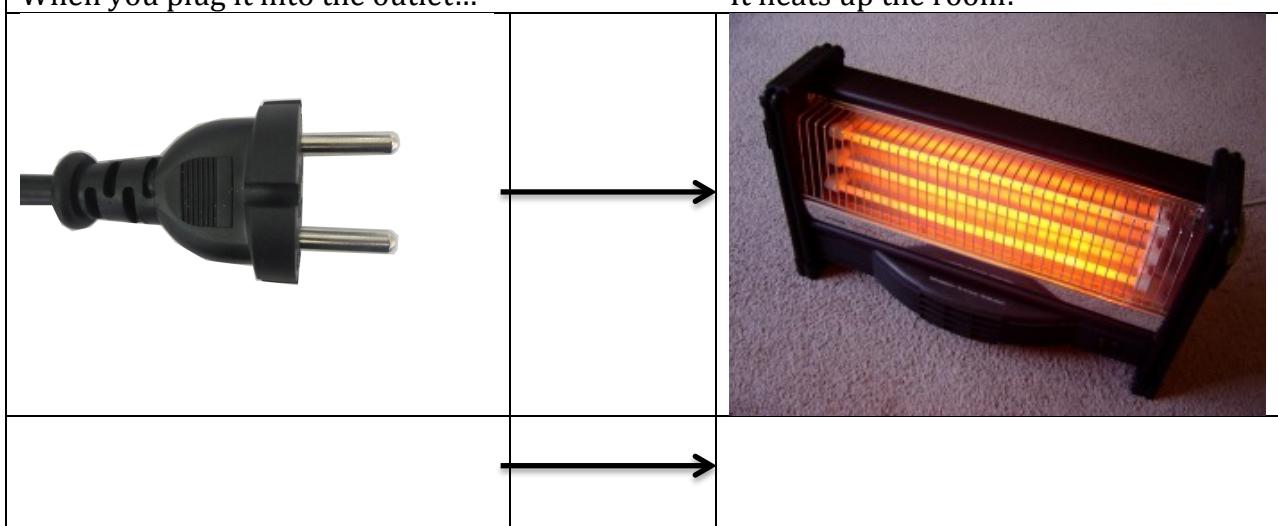
When you stretch the bowstring....

It flies!

**B.4. A space heater:**

When you plug it into the outlet...

It heats up the room!



**B.5. A light bulb:**

When you plug it into the outlet....		It lights!
	→	
What type of energy?	→	What type of energy?

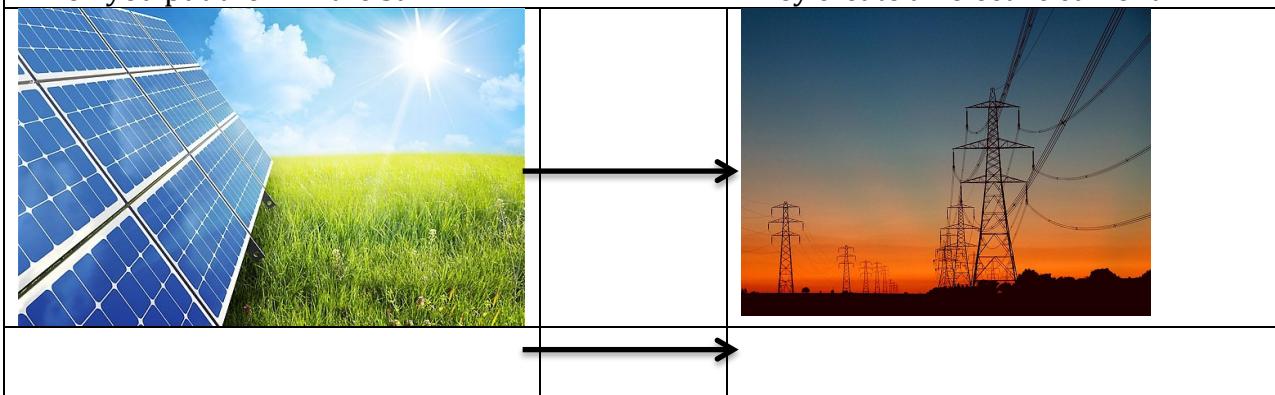
**B.6. An electric motor (like a fan!)**

When you plug it into the outlet...		It spins!
	→	
What type of energy?	→	What type of energy?

**B.7. Solar Cells**

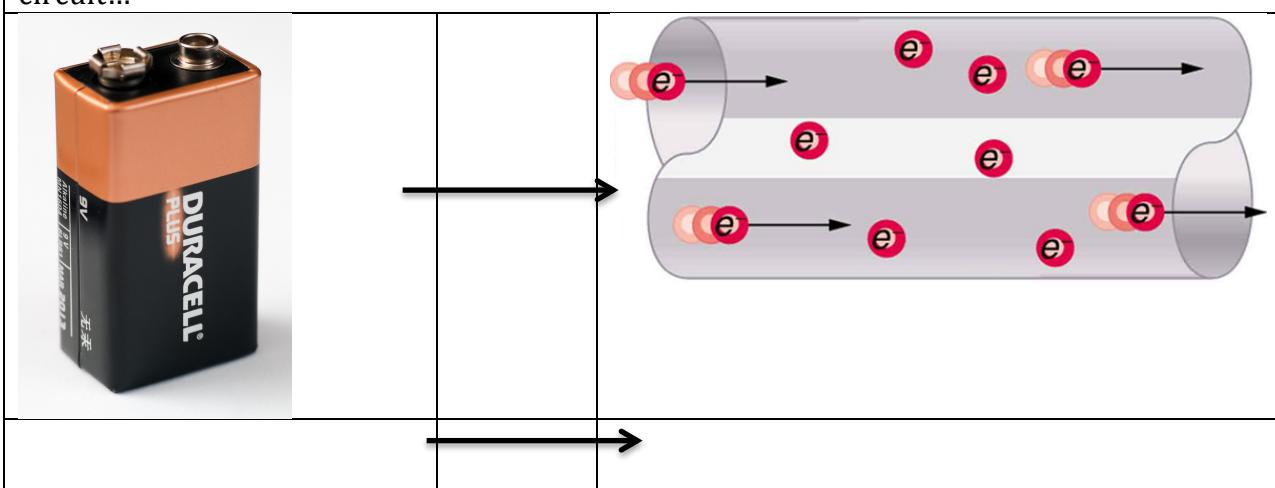
When you put them in the sun...

They create an electric current.

**B.8. Battery**

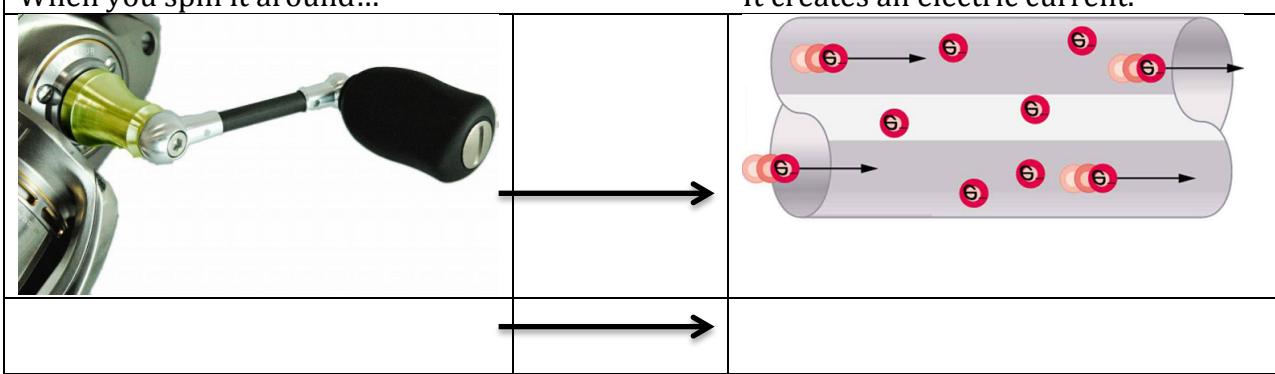
When you hook it up in a circuit...

It creates an electric current.

**B.9. Electric Generator:**

When you spin it around...

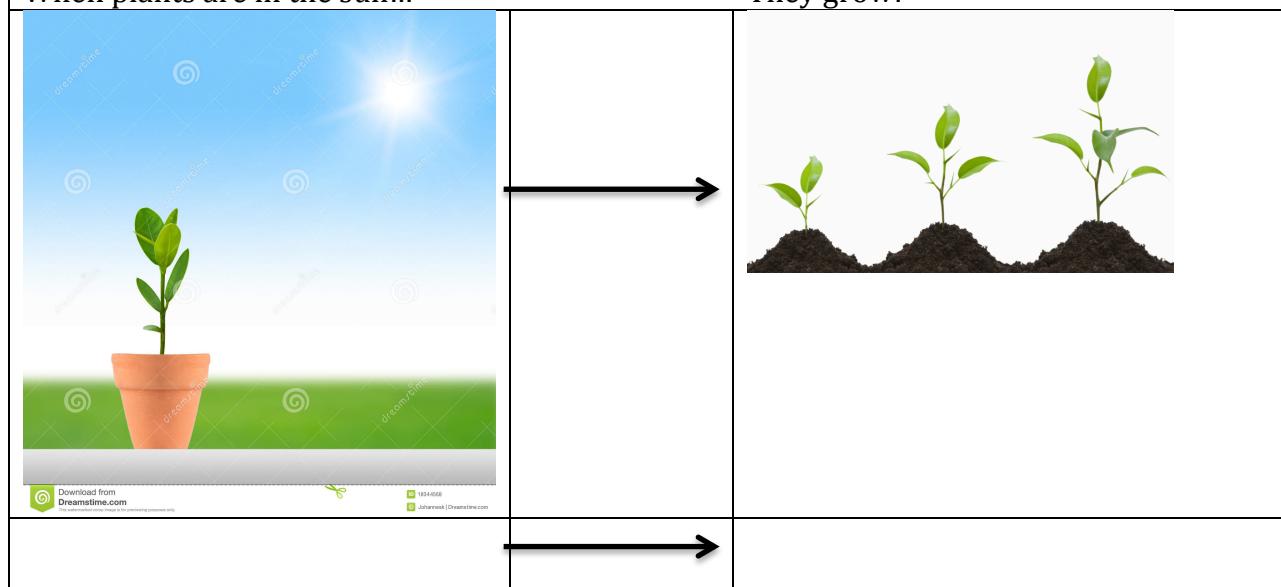
It creates an electric current.



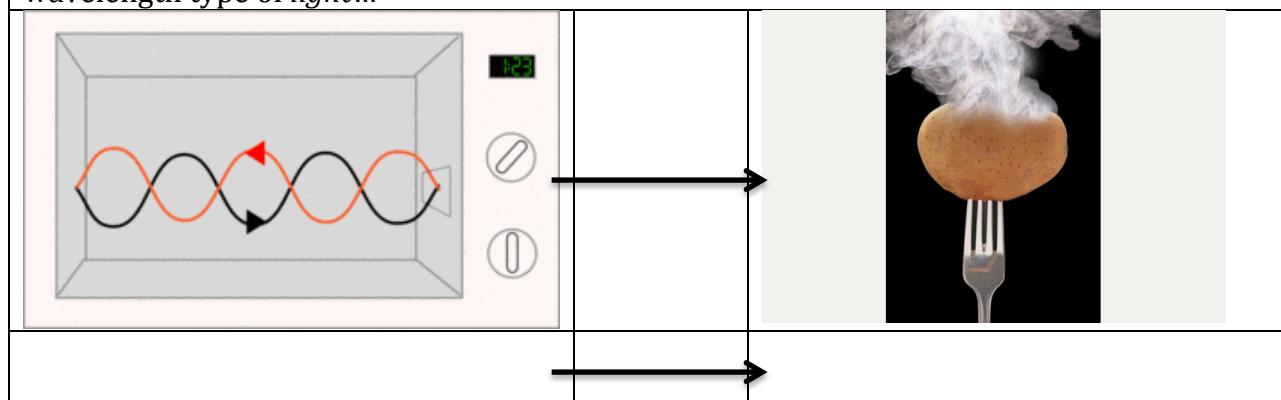
**B.10. Plants (Photosynthesis)**

When plants are in the sun...

They grow!

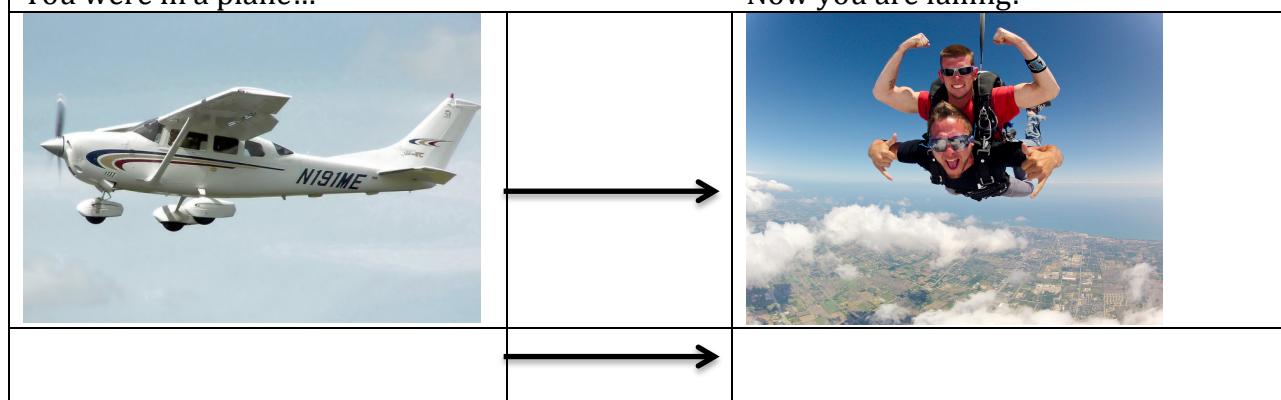
**B.11. Microwave Oven**It creates microwaves, a long wavelength type of *light*...

That heats your food.

**B.12. Skydiving**

You were in a plane...

Now you are falling!



**Part C: Human Energy**

Humans need to eat food, and then convert this into all different types of energy.

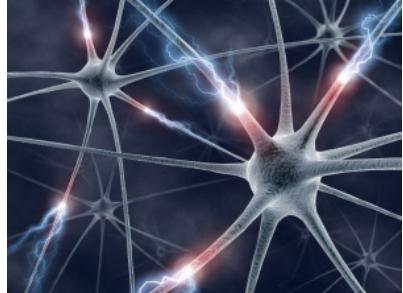
For each photo, describe what kind of energy it represents.

**Climb Stairs!****Maintain a body temperature of 98°F.****Grow!****Cry and scream!**

You eat food, and then use that energy to...

**Run!****Emit infrared light!**

Send electrical signals between cells of your brain!

**Wind up muscles!**