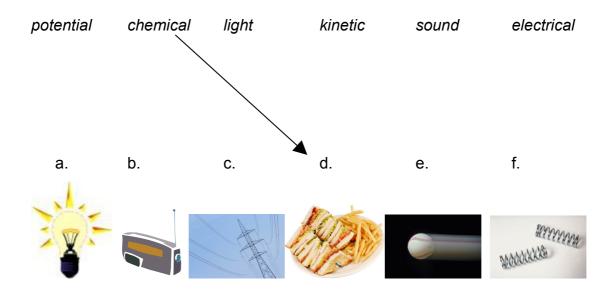
Name:....

 Match the different forms of energy in the list with the correct diagram beneath. One has been done for you.



2. Now, use the forms of energy in the list below to complete the following sentences. Each word can be used once.

potential		chemical	kinetic	sound	electrical			
	(i)	Vibrations	cause	energ	energy.			
	(ii)	Energy sto	Energy stored in a battery or food (as well as fuel, such as					
		oil and coa	al) is called	ergy.				
	(iii)	Energy just waiting to do work is called						
		energy.						
	(iv)	We mainly	/ use	energy	in our homes.			
	(v)	Any movir	ng object has _		_ energy.			

3. Again, use the forms of energy in the list below to complete the following sentences about **energy conversions** (changing one form of energy into another). Each word can be used once.

potential	chemi	ical light	kinetic	sound	electrical		
	(i)	A light bulb conve	erts	energy in	nto		
		and heat energy.					
	(ii)	(ii) A moving car converts the chemical energy in fue					
		ene	ergy.				
	(iii)	(iii) A radio converts electrical energy into					
		energy.					
	(iv)	An object just abo	out to fall conve	rts	energy		
		into kinetic energy as it falls to the ground.					
	(v)	The	energy in fu	el is converted	l into heat		
		energy by burning	<b>]</b> .				

 Draw a diagram that you would use to show the conversion of chemical energy in a battery into heat energy. You should include a **battery**, a **light bulb** and a **switch** in your diagram. Make sure you label your diagram.



6. Energy can neither be \_\_\_\_\_ nor \_\_\_\_ but it can be \_\_\_\_\_ from one form into another. This is called the Law of \_\_\_\_\_ of Energy.

7. Most of the energy on our planet comes from the Sun. Plants use this energy to make food by a process called *photosynthesis*. We use plants in a variety of ways, e.g. food, fuel etc. Describe different ways in which energy from the sun is converted into other forms of energy.

8. When you turn a light on, all of the electrical energy is not converted into light energy because some of it is wasted as heat energy. In fact, most of the energy produced on earth ends up as wasted heat.

(a) Give another example of where energy is wasted as heat.

(b) How can we prevent some of this energy from being wasted?

(c) How would your answer to part (b) prevent energy from being wasted?

9. Using a diagram to show your idea, design an experiment to compare the amount of energy contained in different foods.

(a) List what you need:

(b) What measurements will you make?

(c) Predict what will happen in your experiment.

(d) How accurate do you think your method will be?