Energy Transformations

Describe the energy transformation that is occurring in each sentence. Underline the key word or phrase that indicates the energy changing into a different form. Then, fill in the boxes to complete the transformation using one of the main forms of energy – chemical, gravitational, elastic, nuclear, mechanical, electrical, sound, thermal, or radiant. The first one has been completed for you.

. A <u>battery</u> is placed in a hashlight, which co	ompletes a <u>circuit</u> , then produces <u>light</u> when	turned to the on position.
chemical	electrical	radiant
2. A <u>rotating turbine</u> generates <u>electricity</u> to	power a blow-dryer.	
→	→	
B. Lion on a cliff's edge pounces onto a de	<u>er</u> below and consumes it.	
-	→	
Electricity flows to microwave as it reheats	your food.	
-	→	
5. A person standing on the edge of a diving I	board pushes down to bend the board, then b	oounces up.
-	→	
6. A battery powers a phone that chimes who	en turned on.	
-	→	

toms fuse in the Sur	n to produce sunlight t	that is absorbed by	plants.		
	-	•		→	
oal, a fossil fuel, is b	ourned to generate ele	ectricity.			
	→	•		→	
A rubber bike horn is	squeezed, which con	npresses it, and pro	oduces a honking no	oise.	
	-	•		→	
A match is struck ag	ainst the box and pro	duces light.			
	-	•		→	
A glass sitting on the	e edge of the counter	falls and makes a lo	oud shattering noise	€.	
	-	•		→	
Propane, a fuel, is b	urned which causes a	hot air balloon to li	ft off the ground.		
	-	•		→	

Energy Transformations Key

Describe the energy transformation that is occurring in each sentence. Underline the key word or phrase that indicates the energy changing into a different form. Then, fill in the boxes to complete the transformation using one of the main forms of energy – chemical, gravitational, elastic, nuclear, mechanical, electrical, sound, thermal, or radiant. The first one has been completed for you.

1. A **battery** is placed in a flashlight, which completes a **circuit**, then produces **light** when turned to the on position. chemical electrical radiant 2. A <u>rotating turbine</u> generates <u>electricity</u> to <u>power a blow-dryer</u>. mechanical electrical thermal 3. Lion on a cliff's edge pounces onto a deer below and consumes it. gravitational mechanical chemical 4. **Electricity** flows to **microwave** as it **reheats** your food. electrical radiant thermal 5. A person standing on the edge of a diving board pushes down to bend the board, then bounces up. mechanical gravitational elastic 6. A **battery** powers a **phone** that **chimes** when turned on. chemical electrical sound

7. Atoms fuse in the Sun to produce sunlight that is absorbed by plants. nuclear radiant chemical 8. **Coal**, a fossil fuel, is **burned** to generate **electricity**. chemical thermal electrical 9. A rubber bike horn is **squeezed**, which **compresses** it, and produces a **honking noise**. mechanical elastic sound 10. A match is struck against the box and produces light. chemical mechanical radiant 11. A glass sitting on the edge of the counter falls and makes a loud shattering noise. gravitational mechanical sound 12. **Propane**, a fuel, is **burned** which causes a hot air balloon to **lift off** the ground. chemical thermal mechanical