## **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.

1. A <u>batte</u>	ery is placed in a flashlight, v	which completes a	circuit, then produces	ilight when turned	to the on position.
	chemical	<b>→</b>	electrical	<b>→</b>	radiant
2. A <u>rotat</u>	ing turbine generates elec	tricity to power a	blow-dryer.	<u></u>	
		<b>→</b>		<b>→</b>	
3. <u>Lion o</u> ı	n a cliff's edge pounces or	nto a <u>deer</u> below a	and consumes it.		
		<b>→</b>		<b>→</b>	
4. Electric	city flows to microwave as it	reheats your food.			
		<b>→</b>		<b>→</b>	
5. A perso	on standing on the edge of a	a diving board pusl	hes down to bend the b	oard, then bounces	s up.
		<b>→</b>		<b>→</b>	
6. A batte	ery powers a phone that chi	mes when turned o	on.		
		-		-	

toms fuse in the Su	n to produce sunligh	t that is absorbed by	plants.		
	_	•		<b>→</b>	
oal, a fossil fuel, is	burned to generate e	electricity.			
	_	•		<b>→</b>	
A rubber bike horn i	s squeezed, which co	ompresses it, and pro	oduces a honking no	ise.	
	_	•		<b>→</b>	
A match is struck a	gainst the box and p	roduces light.			
	_	•		<b>→</b>	
A glass sitting on th	e edge of the counte	er falls and makes a l	oud shattering noise		
	_	•		<b>→</b>	
Propane, a fuel, is l	ourned which causes	a hot air balloon to I	ift off the ground.		
	_	•		<b>→</b>	

## **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