### 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 battery** is placed in a flashlight, which completes a **circuit**, then produces **light** when turned to the on position.

   - chemical
   - electrical
   - radiant

2. A **rotating turbine** generates **electricity** to **power a blow-dryer**.

3. **Lion on a cliff’s edge pounces** onto a **deer** below and consumes it.

4. Electricity flows to microwave as it reheats your food.

5. A **person standing on the edge of a diving board pushes down to bend the board, then bounces up**.

6. A **battery powers a phone that chimes when turned on**.
7. Atoms fuse in the Sun to produce sunlight that is absorbed by plants.

8. Coal, a fossil fuel, is burned to generate electricity.

9. A rubber bike horn is squeezed, which compresses it, and produces a honking noise.

10. A match is struck against the box and produces light.

11. A glass sitting on the edge of the counter falls and makes a loud shattering noise.

12. Propane, a fuel, is burned which causes a hot air balloon to lift off the ground.
Energy Transformations Key

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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 **rotating turbine** generates **electricity** to **power a blow-dryer**.

   - 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.

   - gravitational
   - elastic
   - mechanical

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