## Activity 4

* What are the reactants of a chemical reaction?

**Reactants are the initial substances of the chemical reaction.**

* What are the products of a chemical reaction?

**Products are the final substances of the chemical reaction.**

## Activity 5

* What is an endothermic reaction?

**A chemical reaction that absorbs energy globally in the form of heat, light, sound or electricity.**

* What is an exothermic reaction?

**A chemical reaction that releases energy globally in the form of heat, light, sound or electricity.**

## Activity 6

### 6a)

### 6b)

* **Reactants: and**
* **Products:**

### 6c)

6d)

**Law of Lavoisier (Law of conservation of mass)**

6e)

**The synthesis of ammonia is an exothermic reaction, because it releases energy to the environment.**

## Activity 7

### 7a)

### 7b)

* **Reactants:**
* **Products: and**

### 7c)

### 7d)

**Law of Lavoisier (Law of conservation of mass)**

### 7e)

**The decomposition of aluminum oxide is an endothermic reaction, because it absorbs energy from the environment.**