**Chemical Reactions**

**Pumpkin Demo**

**Chemical reactions:** a process during which chemical bonds between atoms are broken and new ones are formed, producing one or more new substances.

At any moment, thousands are occurring in the cells of our bodies.

**Indicators of a chemical reaction**: change in color or odor, production of sound or light, release of energy (exothermic) or absorption of energy (endothermic), fizzing/foaming, production of a new substance.

**Chemical equations**: how a chemical reaction is summarized /explained

Reactants 🡪 products

* Reactants are the starting materials, and products are what is formed by the chemical reaction.
* The arrow reads “changes to” or “forms” or“ yields”

**Activation energy**: the energy needed to start a chemical reaction

**Demo**

Write the 2 chemical equations for this demonstration.

□1st

□2nd

What are the reactants of each (Circle)?

What are the products of each (underline)?

Describe what you observed throughout the demonstration.

What evidence was present that chemical changes/reactions were occurring?

Prediction with hydrogen peroxide:

What part of the demonstration involved activation energy?

Draw figure 13, page 39. Was this demonstration endothermic or exothermic?