

TYPES OF CHEMICAL REACTIONS (TEACHER COPY)

Summarize each definition in your own words as you follow along with the video.

| Chemical Reaction | Definition | Equation Set Up |
|---------------------------|---|---|
| Synthesis | A reaction in which two or more substances combine to form a single new substance. | $A+B \rightarrow AB$ |
| Decomposition | A reaction in which a compound breaks down into two or more simpler substances. | $AB \rightarrow A+B$ |
| Combustion | A reaction in which a substance reacts with oxygen gas, releasing energy in the form of light and heat. | $C_xH_x(O_2) + O_2 \rightarrow CO_2 + H_2O$ |
| Single Replacement | A reaction in which one element replaces a similar element in a compound. | $A+BC \rightarrow AC+B$ |
| Double Replacement | A reaction in which the positive and negative ions of two ionic compounds exchange places to form two new compounds. | $AB+CD \rightarrow AD+CB$ |