

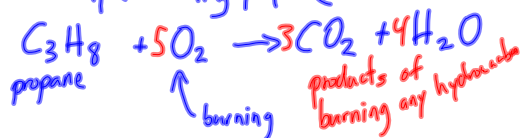
5 Types of Chemical Reactions

## 1. Combustion

"burning"

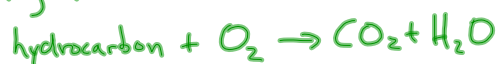
We burn mostly fossil fuels that have hydrocarbons in them.

Example: burning propane



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In general:



## 2. Synthesis or Formation



Elements combine to make a compound.

In general,  
element + element  $\rightarrow$  compound

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## 3. Decomposition

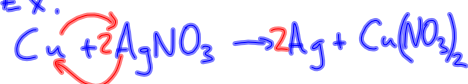
A compound breaks down into its elements.

In general,  
compound  $\rightarrow$  element + element

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## 4. Single Displacement

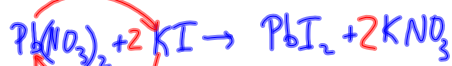
Ex.

In general,  
element + compound  $\rightarrow$  new element + new compound

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## 5. Double Displacement

Ex.

In general,  
compound + compound  $\rightarrow$  new compound + new compound

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