

Chemical Reaction:

- During a chemical reaction, a chemical change takes place. New substances are formed with different properties.
- New substances are formed because bonds between atoms are created and or broken.
- You cannot actually see bonds forming or breaking during a chemical reaction. However, you might observe certain things that indicate a chemical change is taking place.

Evidence that a chemical change/reaction has is happening

- A new substance with new properties is formed
- Gives off heat (exothermic)
- Gives off light
- Smokes
- Gas formation (bubbles)
- Solid formation (forms a solid)
- Change in odor
- Change of color (for example, silver to reddish-brown when **iron** rusts). *Color change not being the only evidence.*
- The decomposition of organic matter (rotting food).
- The change is difficult or impossible to reverse.