



Endothermic and Exothermic Reactions

In a chemical ~~process~~ reaction, the making and breaking of chemical bonds ~~transforms the~~ converts reactants into products. ~~When two or more~~ such substances/elements counteract and a chemical bond is formed ~~between~~ among atoms, thereby creating ~~and forms~~ a chemical compound. Chemical reactions are classified into two types: ~~endothermic~~ endothermic and ~~exothermic~~ exothermic reactions. Energy activation results in the bonding of ~~the~~ two reactants to form a new product.

~~Exothermic reactions~~ There are many chemical reactions involve the ~~emit~~ release of energy in the ~~with~~ forms of heat, light, or sound. ~~Such chemical reactions are called exothermal reactions.~~ This ~~release of~~ energy ~~that is released comes from~~ caused by the bonding of ~~that join~~ several atoms ~~together~~ in the molecules. ~~Combustion is a~~ A common example of ~~exothermal~~ exothermic reactions is the ~~phenomena of~~ combustion. A ~~fully combustible~~ Complete combustion ~~process the~~ occurs when is a compound (fuel) reacts with an oxidizing ~~elements~~ substance (oxygen), ~~and they~~ yielding compounds of each element in the fuel with the oxidizing element as ~~re-emit~~ products. ~~There~~ Most exothermic reactions are ~~mostly~~ spontaneous ~~exothermal processes~~.

~~On the other hand, many chemical reactions~~ Endothermic reactions involve absorption of ~~energy~~ energy in the ~~form of~~ heat, light, or sound ~~forms~~. ~~Such chemical reactions are called endothermal reactions.~~ These reactions cannot ~~progress with no~~ proceed without addition of ~~heat or supplying~~ energy. ~~The resulting~~ reaction products of the reaction ~~has lesser stability~~ are less stable because, ~~the stability of a molecule~~ decreases as the energy of its constituent bonds ~~increases~~ the higher the energy bond, the ~~less strength~~ its molecules possess. ~~Photosynthesis is a~~ A common example of ~~endothermal~~ endothermic reactions, ~~is~~ the ~~phenomena of~~ photosynthesis. ~~Here which involves~~ plants the use of the energy from ~~the~~ sun to convert carbon dioxide and water into glucose and oxygen. Most ~~endothermal~~ endothermic reactions are ~~not~~ spontaneous.

To ~~understand the difference between~~ the two ~~reactions~~ types of reactions, we need to explore several ~~concepts like the,~~ such as the behavior of kinetic energy and potential energy ~~iesy behavior in the of the~~ reactant molecules of the reactants of the chemical reaction.

Commented [Author1]: Subject area:
Note that Endothermic/Exothermic are much more prevalent than Endothermal/Exothermal.

Commented [Author2]: Subject area:
The word "reaction" has been used consistently in the latter part of the document.

Commented [Author3]: Language:
The changes made in this sentence enhance the accuracy and readability of information by using appropriate technical words ("elements" instead of "substances") and keeping the academic tone of the sentence consistent.

Commented [Author4]: Subject area:
Here again the correct word choices are used.

Commented [Author5]: Grammar
An article is not required as no specific two reactants are referred to here.

Commented [Author6]: Language readability:
Two sentences have been combined and simplified to bring out the essential point.

Commented [Author7]: Language clarity:
The revision has made the sentence concise and clearer.

Commented [Author8]: Language clarity:
The information in the parenthesis (fuel, oxygen) is added as examples to ensure that the sentence is unambiguous.

Commented [Author9]: Language readability:
The changes here improve the flow and readability of information.

Commented [Author10]: Language:
The sentence is improved for readability.

Commented [Author11]: Language readability:
Two sentences are combined and simplified for clarity of information/content.

Commented [Author12]: Language readability: Although the revision is made for conciseness, the content deletion is made to ensure that the essence of the sentence is intact.

Commented [Author13]: Content gap:
The sentence is revised for clarity. Note that the statement seems contrary to the general knowledge. The accompanying remark informs the author to check the information provided.

Commented [Editor14]: Remark: Please note that the highlighted sentence contradicts known facts. Typically, high bond energy indicates stronger bonds.

Commented [Author15]: Language readability:
The sentence has been made concise by giving a clear progression of ideas in the following sentences. This improves the flow and readability of information.

Commented [Author16]: Language clarity:
The original sentence was unclear and needed complete rewriting to make the sentence unambiguous. Redundancies ("of the reactants of the chemical reaction") have been removed and appropriate words ("to understand" instead of "to know") have been used.