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divisions of physical, inorganic and organic chemistry.

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By James Keeler and Peter  
Wothers Review by Rachel

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(Chemistry) After a couple of university open days where everyone was told to "read around the subject", I was really struggling to find a book which built on what I knew from AS levels.

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Chemical reactions occur when molecules interact and change. Bonds between atoms in molecules break and are reformed in new ways. Chemical reactions are at the heart of

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literally every biological process in the universe. Stars form because of chemical reactions; our sun ignited because of chemical reactions in its core.

~~8 Reasons Why Chemical Reactions Are Important~~

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Taking the macroscopic and view that chemistry involves the transformation of bulk substance, we can confidently state that a chemical process (reaction or interaction) can feasibly occur when the Gibbs free energy of the system decreases, ie. when  $\Delta G$  is



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negative or less than zero,  $\Delta G < 0.00$ . The Gibbs function is:  $\Delta G = \Delta H - T \Delta S$

~~Why? | Chemical Reactions |  
Chemogenesis~~

As an interesting analysis of the concepts behind chemical

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reactions, I can say that its presence there is not unwarranted. Why Chemical Reactions Happen covers ideas from entropy to atomic and molecular orbitals to kinetics and energetics.

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~~Why Chemical Reactions Happen  
by James Keeler~~

Why Chemical Reactions Happen.  
James Keeler and Peter Wothers.  
Description. By tackling the most  
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tools and concepts needed to think like a chemist. The text takes a unified approach to the subject, aiming to help the reader develop a real overview of chemical processes, by avoiding the traditional divisions of physical, inorganic and organic

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chemistry.

~~Why Chemical Reactions Happen  
— James Keeler; Peter ...~~

Chemical reactions take place when the atoms of two or more substances exchange or share electrons. The reaction produces

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atoms and molecules with the electrons arranged differently. The changed configuration of the atoms involves a change in energy, meaning the chemical reaction either gives off or absorbs light, heat or electricity.

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~~What Happens to Atoms During a Chemical Reaction? | Sciencing~~  
Collision Theory: How Chemical Reactions Occur. In order for a chemical reaction to take place, the reactants must collide. The collision between the molecules in a chemical reaction provides

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the kinetic energy needed to break the necessary bonds so that new bonds can be formed.

~~Collision Theory: How Chemical Reactions Occur~~ dummies  
'Why Chemical Reactions Happen'... Watch.



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This is why the properties of a compound are different from the elements it contains, and why you can only separate its elements using another chemical reaction.

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By concentrating on a limited number of model reactions, this book presents chemistry as a cohesive whole by tying together

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the fundamentals of thermodynamics, chemical kinetics, and quantum chemistry, mainly through the use of molecular orbital interpretations.

~~Why Chemical Reactions Happen  
(Keeler, James; Wothers ...~~

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The best part of the book is that it really answers the question of the title: Why DO chemical reactions happen? It does so by introducing and explaining the structure of the atom and of molecules (refreshingly using Molecular Orbital Theory), and applying that



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knowledge to bonding changes in a reaction.

~~Why Chemical Reactions Happen:  
Keeler, James, Wothers ...~~

Chemical reactions occur when chemical bonds between atoms are formed or broken. The

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substances that go into a chemical reaction are called the reactants, and the substances produced at the end of the reaction are known as the products.

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