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My Revision Notes: AQA GCSE (9-1) Combined Science Trilogy CRC Press
Continuing the tradition of the Advances in Chemical Physics series, Volume 101: Chemical Reactions and Their Control on the

Femtosecond Time Scale details the extraordinary findings reported at the XXth Solvay Conference on Chemistry, held at the Universite Libre de Bruxelles, Belgium, from November 28 to December 2, 1995. This new volume discusses the remarkable opportunities afforded by the femtosecond laser, focusing on the host of phenomena this laser has made it possible to observe. Examining molecules on the intrinsic time scale of their vibrations as well as their dissociative motions and electronic excitations represents only part of a broadened scientific window made possible by the femtosecond laser. The assembled studies, with follow-up discussions, reflect the many specialties and perspectives of the Conference's 65 participants as well as their optimism concerning the breadth of scientific discovery now open to them. The studies shed light on the laser's enhanced technical reach in the area of coherent control of chemical reactions as well as of more general quantum systems. The theoretical fundamentals of femtochemistry, the unique

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a second. Research chemists have only tapped the surface of the spectacular reach and precision of the femtosecond laser, a technology that has allowed them to observe the dynamics of molecules on the intrinsic time scale of their vibrations, dissociative motions, and electronic excitations. Volume 101 in the *Advances in Chemical Physics* series, *Chemical Reactions and Their Control on the Femtosecond Time Scale* details their extraordinary findings, presented at the XXth Solvay Conference on Chemistry, in Brussels. The studies reflect the work, in part, of the Conference's 65 participants, including many prominent contributors. Together they shed light on the laser's enhanced technical range in the area of coherent control of chemical reactions as well as of more general quantum systems. The theoretical fundamentals of femtochemistry, the unique behavior of the femtosecond laser, and a view toward future technological applications were also discussed. An exceptionally up-to-date examination of the chemical analyses made

possible by the femtosecond laser, *Chemical Reactions and Their Control on the Femtosecond Time Scale* is an important reference for professionals and students interested in enhancing their research capabilities with this remarkable tool. From 1993 to 1996, she worked with Dr. P. Gaspard at the Universite Libre de Bruxelles, Belgium, on the application of new semiclassical techniques to elementary chemical reaction processes.

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Chemistry and chemical

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Dynamics of Molecules and Chemical Reactions

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All the science in *Breaking Bad*—from explosive experiments to acid-based evidence destruction—explained and analyzed for authenticity. *Breaking Bad*'s (anti)hero Walter White (played by Emmy-winner Bryan Cranston) is a scientist, a high school chemistry teacher who displays a plaque that recognizes his "contributions to research awarded the Nobel Prize." During the course of five seasons, Walt practices a lot of ad hoc chemistry—from experiments that explode to acid-based evidence destruction to an amazing repertoire of methodologies for illicit meth making. But how much of Walt's science is actually scientific? In *The Science of "Breaking Bad,"* Dave Trumbore and Donna Nelson explain,

analyze, and evaluate the show's portrayal of science, from the pilot's opening credits to the final moments of the series finale. The intent is not, of course, to provide a how-to manual for wannabe meth moguls but to decode the show's most head-turning, jaw-dropping moments.

Trumbore, a science and entertainment writer, and Nelson, a professor of chemistry and *Breaking Bad*'s science advisor, are the perfect scientific tour guides. Trumbore and Nelson cover the show's portrayal of chemistry, biology, physics, and subdivisions of each area including toxicology and electromagnetism. They explain, among other things, Walt's DIY battery making; the dangers of Mylar balloons; the feasibility of using hydrofluoric acid to dissolve bodies; and the chemistry of methamphetamine itself. Nelson adds interesting behind-the-scenes anecdotes and describes her work with the show's creator and writers. Marius Stan, who played Bogdan on the show (and who is a PhD scientist himself) contributes a foreword. This is a book for every science buff who appreciated the show's

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