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Concepts of Earth and Chemistry Course Description This is the suggested course sequence that allows one core area of science to be studied per semester. You can change the sequence of the semesters per the needs or interests of your student; materials for each semester are independent of one another to allow flexibility. Semester 1: Earth Blending a creationism perspective of history with definitions of terms and identification of famous explorers, scientists, etc., this book gives students an excellent initial knowledge of people and places, encouraging them to continue their studies in-depth. Semester 2: Chemistry Chemistry is an amazing branch of science that affects us every day, yet few people realize it, or even give it much thought. Without chemistry, there would be nothing made of plastic, there would be no rubber tires, no tin cans, no televisions, no microwave ovens, or something as simple as wax paper. This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers. Find out why pure gold is not used for jewelry or coins. Join Humphry Davy as he made many chemical discoveries, and learn how they shortened his life. See how people in the 1870s could jump over the top of the Washington Monument. Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information.

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The volumes on "psychotropic substances" in the Handbook of Experimental Pharmacology series clearly show that the classical concept of this discipline has become too narrow in recent years. For instance, what substances are psychotropic is determined not by the criteria of the animal trial, i.e. by experimental pharmacology, but by their action on the psyche, which in the final analysis is only accessible to us in man. Psychotropic substances force experimental pharmacology (and thus also this Handbook) outside

its tradition allimits, which have essentially depended on animal studies. The antipsychotics and antidepressants were not discovered in animal experiments, but by chance (or more precisely, by clinical empiricism). Experienced psychiatrists trained in the observation of patients recognised the efficacy of drugs, the beneficial effect of which nobody had dreamed of before: DELAY and DENICKER in the case of chlorpromazine, KLINE in the case of the monoamine oxidase inhibitors and KUHN in the case of imipramine. It was only after these discoveries that the pharmacologists developed experimental models of the psychoses in animal experiments. However, even today we still do not know with certainty which of the effects shown in animals is relevant for the clinical effect despite the vast abundance of individual investigations. For many years, this uncertainty led to the testing of antipsychotics (e.g. of the neuroleptic type) in models which actually produced the undesired effects.

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