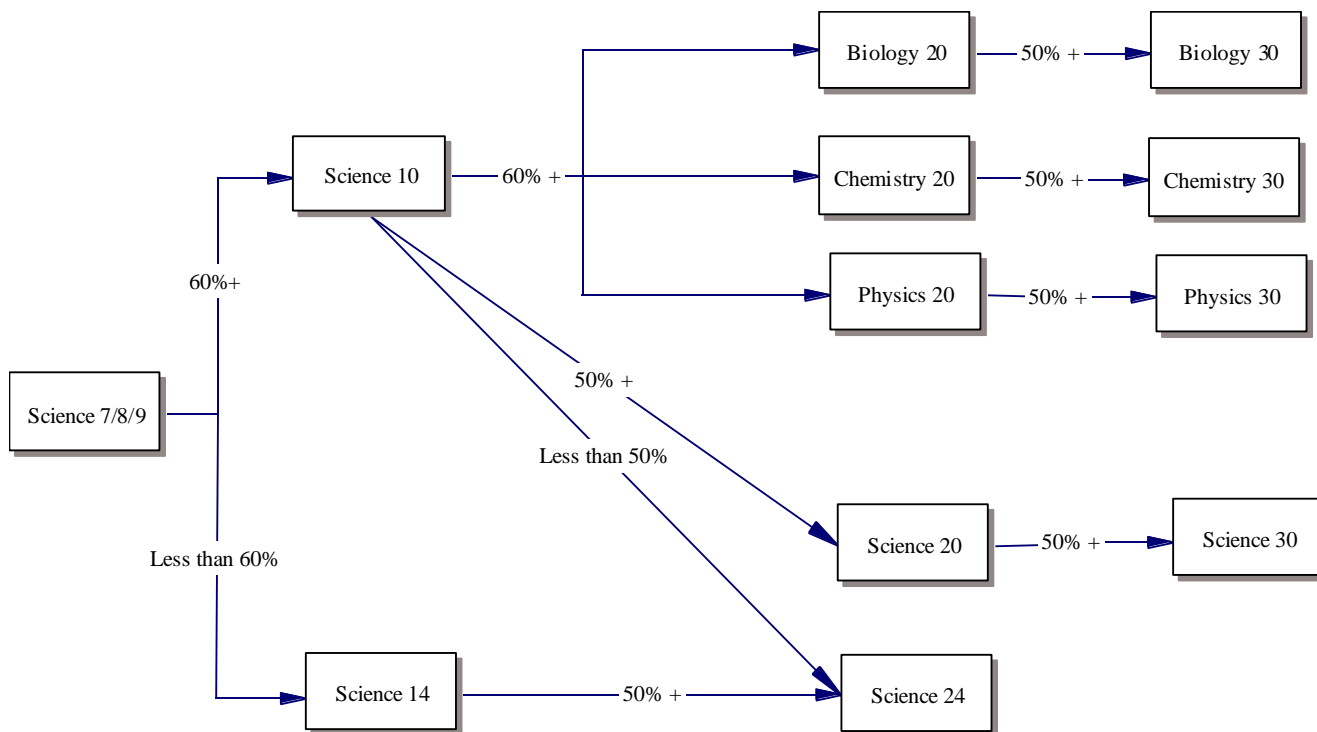


SCIENCES



Science 7

Science 7 is available in print or online formats. Five instructional modules are covered: Interactions and Ecosystems, Plants for Food and Fibre, Heat and Temperature, Structures and Forces and Planet Earth.

Science 8

Science 8 consists of five units of study: Mix and Flow of Matter, Cells and Systems, Light and Optical Systems, Mechanical Systems, and Fresh and Salt Water Systems. It is available in print or online formats.

Science 9

Science 9 is also available in print or online formats and has five units of study: Biological Diversity, Matter and Chemical Change, Environmental Chemistry, Electrical Principles and Technologies, and Space Exploration.

Science 10 (5 credits)

(Prerequisite: 65% in Science 9)

Science 10 is the academic foundation for progression through individual science courses at the 20 and 30 levels. Covering units in biology, chemistry, and physics, it provides students with opportunities to explore, analyze, and appreciate the interrelationships among science, technology, society, and the environment. It is available in both print and online formats.

Science 14 (5 credits)

Available in both print and online formats, Science 14 is the first of the 14-24 general science series satisfying science requirements for a high school diploma. The four modules that make up this course are: Investigating Properties of Matter, Energy Transfer Technologies, From Life to Lifestyle, and Matter and Energy in the Biosphere.

Science 20 (5 credits)

(Prerequisite: 50% in Science 10)

Science 20 is a multi-discipline science course that involves Physics, Chemistry, Biology, and Earth Science. The four print units are: Chemical Change, Changes in Motion, The Changing Earth, and Changes in Living Systems.

Science 24 (5 credits)

(Prerequisite: 50% in Science 14)

Science 24 completes the general science series (14 - 24) satisfying science requirements for a high school diploma in four sequential modules: Matter and Chemical Change, Energy Transformations, Disease Defence and Human Health, and Safety in Transportation. Both print and online resources are available to students.

Biology 20 (5 credits)

(Prerequisite: 60% in Science 10 is recommended)

Biology 20 studies energy and matter exchange in the biosphere, ecosystems and population change, photosynthesis and cellular respiration, and the human systems. Biology 20 is also available in both print and online formats.

Chemistry 20 (5 credits)

(Prerequisite: 60% in Science 10 is recommended)

Chemistry 20 is composed of four units that involve the study of chemical bonding and the diversity of matter; matter as gases, solutions, acids, and bases; and quantitative relationships in chemical changes. Both print and online versions of this course are available to students.

Physics 20 (5 credits)

(Prerequisite: 60% in Science 10 is recommended)

Physics 20 studies kinematics and dynamics, circular motion and gravitation, mechanical waves, and light. It is also available in both print and online formats.

Science 30 (5 credits)

(Prerequisite: 50% in any 20-level science course)

Science 30, available in both print and online, continues with an academic study of energy in biological, chemical, and physical systems. It contains four units: Living Systems Respond to Their Environment, Chemistry and the Environment, Electromagnetic Energy, and Energy and the Environment.

Biology 30 (5 credits)

(Prerequisite: 50% in Biology 20)

Biology 30, also available in print and online formats, includes a study of the nervous system, hormones and control, reproduction and human development, cell division and classical genetics, heredity and molecular genetics, population dynamics, and populations and communities.

Chemistry 30 (5 credits)

(Prerequisite: 50% in Chemistry 20)

Chemistry 30 explores the mysteries of energy, putting energy to work, electrochemistry, the practical side of redox, chemistry in balance, the nature of acids and bases, and acid-base applications. Scientific and technological knowledge is integrated with societal issues with an emphasis on communication skills. It is offered in both formats.

Physics 30 (5 credits)

(Prerequisite: 50% in Physics 20)

This is an academic course covering the conservation of energy and momentum, static and current electricity, magnetism, electromagnetism, quantum theory, models of the atom, and radioactivity. Physics 30 is available as a print or online course.