**Science 8 Course Outline**

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**Course Mark Categories**

**Exams & Major Assignments** will be worth ***twice as much*** as **Assignments & Quizzes**.

Website: [www.liveitup4life.com](http://www.liveitup4life.com)

This course combines life science, earth and space science, and physical science through four major themes.

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| **Life Science – Cells, Tissues, Organs, and Systems (CS)** |
| CS1 Analyze the characteristics of cells, and compare structural and functional characteristics of plant and animal cells. |
| CS2 Demonstrate proficiency in the use of a compound light microscope to observe plant and animal cells. |
| CS3 Distinguish structural and functional relationships among cells, tissues, organs, and organ systems in humans and how this knowledge is important to various careers. |
| CS4 Analyze how the interdependence of organ systems contributes to the healthy functioning of the human body. |

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| **Physical Science – Optics and Vision (OP)** |
| OP1 Identify and describe, through experimentation, sources and properties of visible light including: • rectilinear propagation • reflection • refraction.  |
| OP2 Explore properties and applications of optics-related technologies, including concave and convex mirrors and lenses. |
| OP3 Compare the nature and properties of human vision with optical devices and vision in other living organisms. |
| OP4 Evaluate the impact of electromagnetic radiation-based technologies on self and community. |

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| **Physical Science – Forces, Fluids, and Density (FD)** |
| FD1 Investigate and represent the density of solids, liquids, and gases based on the particle theory of matter. |
| FD2 Examine the effects of forces in and on objects in fluids, including the buoyant force. |
| FD3 Investigate and describe physical properties of fluids (liquids and gases), including viscosity and compressibility. |
| FD4 Identify and interpret the scientific principles underlying the functioning of natural and constructed fluid systems. |

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| **Earth and Space Science – Water Systems on Earth (WS)** |
| WS1 Analyze the impact of natural and human-induced changes to the characteristics and distribution of water in local, regional, and national ecosystems. |
| WS2 Examine how wind, water, and ice have shaped and continue to shape the Canadian landscape. |
| WS3 Analyze natural factors and human practices that affect productivity and species distribution in marine and fresh water environments. |

