**Grade 7 Science Course Outline**

**Ms. Vardy 703**

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| **Unit** | **Concepts** | **Resources** | **Time Frame** |
| **Interactions within Ecosystems** | * Types and parts of an ecosystem
* Roles of organisms, food webs, food chains
* Succession, impact of people on ecosystems
 | Curriculum guideDiscovering Science 7 | September- October |
| **Heat** | * Describing and measuring temperature
* Particle theory of matter, states of matter, changes of state
* Transferring heat, conductors and insulators
 | Curriculum guideDiscovering Science 7 | November- December |
| **Mixtures and Solutions** | * Pure substance, classifying mixtures
* Solution, concentration and solubility
* Separating mixtures and solutions
 | Curriculum guideDiscovering Science 7 | January- March |
| **Earth’s Crust** | * Minerals, rocks, rock cycle
* The changing crust, volcanoes and earthquakes, mountains
* Weathering, erosion, soil types, sustaining fertile soils
 | Curriculum guideDiscovering Science 7 | March- June |

**Course Organization**

* This course is designed to give students an introduction to a variety of science areas including biology, ecology, chemistry, geology, physics, and environmental science.
* Students will require a binder/folder for this course. This is to ensure that students keep their work organized and also to prevent work from being misplaced.
* Students will be participating in laboratory experiments. A lab contract will be issued before the experiments begin. The lab mark for the course will involve student participation, involvement and behaviour in the lab, as well as a lab assignment which will be completed after the experiment.
* Students will receive a mark for homework/class work and participation. A record is taken each day regarding attendance. Students who miss a large amount of time will receive low participation marks. In addition to attendance, at times homework checks will be done and a record of student behaviour in class is noted to accompany this mark.

**Evaluation Scheme**

**Evaluation Percentage**

Tests/Quizzes 40%

Labs 15%

Homework/Class work/Participation 10%

Assignments/Journal 15%

Final Exam 20%

**TOTAL 100%**