

Henry Street High School

SES 4U1

Earth and Space Science Grade 12, University Preparation

COURSE OUTLINE

COURSE DESCRIPTION

This course develops students' understanding of Earth and its place in the universe. Students will analyse the development of technologies that have contributed to this understanding and will evaluate the impact of milestones in astronomical theory or knowledge on the scientific community. The properties of the universe will be investigated, particularly the evolution of stars. Students will closely examine the materials of the Earth, its internal and surficial processes, and its geologic history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives.

UNITS OF STUDY

UNIT 1 – Astronomy

UNIT 2 – Planetary Science

UNIT 3 – Recording Earth's Geologic History

UNIT 4 – Earth Materials

UNIT 5 – Geological Processes

ASSESSMENT AND EVALUATION

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Each unit may include the following strategies:

- ❖ Quizzes
- ❖ Lab Activities
- ❖ Assignments
- ❖ Computer Activities
- ❖ Tests/Unit Tests

SUMMATIVE EVALUATIONS

Summative evaluations will include marks from at least one of the following categories:

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|------------------------|-----|
| Knowledge | 40% |
| Thinking/Investigation | 20% |
| Application | 20% |
| Communication | 20% |

FINAL EVALUATION

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|----------------------------|-----|
| Term Work | 70% |
| Final Summative Evaluation | 30% |

OTHER INFORMATION

TEXTBOOK - *Earth Science* McDougal Little - \$120

EQUIPMENT: Binder, calculator, pen, pencil, coloured pencils, ruler, paper, graph paper