

NEPEAN HIGH SCHOOL

Science Department

SBI4U

Prerequisite: SBI3U or SBI3UR

Teacher Name: Dr. Aota

Student Name: _____



Textbook: Nelson Biology 12 Replacement Value: \$ 120 Assigned Text # _____

COURSE DESCRIPTION: (Please adjust for your course)

This course provides students with the opportunity for in-depth study of the concepts and processes associated with biological systems. Students will study and conduct investigations in the areas of metabolic processes, molecular genetics, homeostasis, evolution, and population dynamics. Emphasis will be placed on achievement of the detailed knowledge and refined skills needed for further study in the various branches of the life sciences and related fields.

The curriculum document is available from: <http://www.edu.gov.on.ca/eng/curriculum/>

UNITS OF STUDY:

Unit 1	Population Dynamics	Chapters 14 - 15
Unit 2	Evolution	Chapters 11 - 13
Unit 3	Metabolic Processes	Chapters 1 - 3
Unit 4	Molecular Genetics	Chapters 4 - 6
Unit 5	Homeostasis	Chapters 7 - 10

ASSESSMENT AND EVALUATION:

Category and Types of Assessment	Weight
Knowledge & Understanding <ul style="list-style-type: none">knowledge of facts and terms; understanding of concepts, principles, laws and theories; relationships between concepts and transfer of concepts to new contexts	28 %
Thinking, Inquiry & Problem Solving <ul style="list-style-type: none">use of skills and strategies in scientific inquiry, such as planning, performing, recording, analysing, interpreting and problem solving ; applications of technical skills and procedures; use of equipment and materials;	21 %
Application <ul style="list-style-type: none">connecting science, technology, society and the environment	10.5 %
Communication <ul style="list-style-type: none">communicating information and ideas with clarity and precision; using scientific terminology, conventions and SI units	10.5 %
Summative <ul style="list-style-type: none">end of year summative project (rich performance task) 10% and final exam 20%	30%

ADDITIONAL NOTES:

The Nepean Science Department follows the evaluation policies as outlined in the Student Agenda. Students are expected to care for the textbooks issued to them and to return them in good condition. Each student is required to bring to class pens and pencils, textbook and notebook, and a ruler, geometry set, graph paper and a scientific calculator. Students are expected to behave in a responsible manner. They will be billed for any breakage that results from carelessness. All work to be marked must be typed or neatly handwritten in blue or black ink. Pencil is only permitted for diagrams. All assignments are to be written individually, unless otherwise stated by the teacher. Extra help for review, remediation or enrichment is readily available. This is best arranged by appointment. Your teacher will provide times when (s)he is available.

