



ANATOMY & PHYSIOLOGY 12 - COURSE OUTLINE

BIG IDEAS

- Homeostasis is maintained through physiological processes
- Gene expression, through protein synthesis, is an interaction between genes and the environment
- Organ systems have complex interrelationships to maintain homeostasis

COURSE CONTENT

- **Homeostasis**
(biological molecules, metabolism and enzymes, feedback loops and regulation of the body's internal environment, transport across a cell membrane, disease as an imbalance in homeostasis)
- **Gene Expression**
(DNA: the cell's genetic information and replication, gene expression, proteins and their relationship to the structure and function of all cells, genomics and biotechnology)
- **Organ Systems**
(structure and function, structural and functional interdependence, maintenance of homeostasis, micro to macro organization, lifestyle differences and their effects on human health, holistic approach to health)

PROVINCIAL CORE CURRICULUM (Curricular Competencies & Content)

- https://curriculum.gov.bc.ca/sites/curriculum.gov.bc.ca/files/curriculum/science/en_science_12_a_natomy-and-physiology_elab.pdf

RESOURCE MATERIALS

- BC Biology 12 (Nelson)

ASSESSMENT AND EVALUATION

Assessment is the systematic gathering of information about what students know, are able to do, and are working towards. Assessment methods may include quizzes, student self-assessment of **core competencies**, performance observations, & conferencing.

Evaluation strategies may include

- Assignments, activities
- Tests, quizzes
- Projects, lab activities
- Presentations, mind maps

MARKS ASSIGNMENT

- Final mark will be determined from the various assessment and evaluation strategies (**80% Tests/Quizzes & 20% Assignments**)

POLICIES AND PROCEDURES

- Students are expected to follow the safety rules outlined in the text and discussed in class
- Students are required to maintain **Marks Record Sheets**
- Students will be given a **Progress Report** at some point during the year which must be signed by a parent/guardian and returned to the Science teacher
- For students receiving a mark less than 60% on a Progress Report, this report will constitute an “IE” letter grade (Insufficient Evidence of Learning)
- It is expected that students will demonstrate ethical, responsible, cooperative behavior
- Cheating, plagiarism, and academic dishonesty (e.g. “skipping” class) are not acceptable
- No credit, or additional opportunity for make-up, will be given to students involved in any form of cheating, plagiarism or academic dishonesty
- **Cell phones and electronic devices are not permitted in Science classrooms**

ATTENDANCE

- Missing classes for any reason will have an impact on academic success
- Students absent from class are solely responsible for obtaining and completing any missed work
- Tutorial times are offered each school day before the first period and must be utilized following any absence from class
- A mark of zero may be assigned for all missed assignments, tests, and quizzes
- Students that know they will be absent from class must obtain and complete the **Windsor Science Department Absence Form** from their teacher, well in advance of their absence
- The school and teaching staff are not required to make special arrangements for unexcused absences
- **Family vacations are not an excused absence**
- Repeated unexcused absences or lates will result in consequences from the classroom teacher and from the grade administrator
- **Please refer to the School District 44 ‘Attendance Matters’ document found on the North Vancouver School District Home Page**

TEXTBOOKS

- Textbooks must be maintained throughout the course, and students must return their assigned textbook at the end of the year
- Students will pay for lost/damaged textbooks
- Students will be expected to maintain an organized binder containing notes, workbook, assignments, and activities

PRINT STUDENT NAME: _____

STUDENT SIGNATURE: _____

PRINT PARENT/GUARDIAN NAME: _____

PARENT/GUARDIAN SIGNATURE: _____

DATE: _____