



Science 7 Course Outline – Mr. Craddock & Mr. Van Uden

Father Leonard van Tighem School



Course Main Objectives: Students will acknowledge that Science is one way of viewing, categorizing and understanding the world around them. Furthermore, students will learn to appreciate, enjoy and integrate science and the environment into their daily lives while mastering the unit concepts to the best of their ability.

Expectations: Be respectful and on time, follow class routines, and bring text & all required materials to class.

Recommended Materials: Binder with dividers, pens, pencils, calculator, ruler, pencil crayons

UNIT A – INTERACTIONS AND ECOSYSTEMS

Approximately 25 classes (Sept. – Oct.)

Major Concepts in Unit A:

1. Relationships exist between living things and their environments.
2. The flow of energy and the cycling of matter can be traced and interpreted in ecosystems.
3. Changes can be observed and monitored in ecosystems.
4. Maintaining sustainable environments requires knowledge, decisions, and actions.



UNIT B – PLANTS FOR FOOD AND FIBRE

Approximately 25 classes (May – June)

Major Concepts in Unit B:

1. Understanding structures and life processes of plants helps us to interpret their needs.
2. Plants play an essential role in the environment and in meeting human needs.
3. Soil is an important resource that human activity can protect or degrade.
4. The ways that plants are grown and used are related to human needs, technology, and the environment.

UNIT C – HEAT AND TEMPERATURE

Approximately 25 classes (Nov. – Dec.)

Major Concepts in Unit C:

1. Human needs have led to technologies for obtaining and controlling heat.
2. Heat affects matter in different ways.
3. Understanding heat and temperature helps explain natural phenomena and technological devices.
4. Technologies that use heat have benefits and costs to society and to the environment.

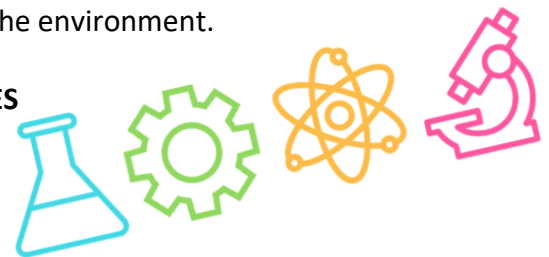


UNIT D – STRUCTURES AND FORCES

Approximately 25 classes (Jan. – Feb.)

Major Concepts in Unit D:

1. Structures are found in natural and human-made environments.
2. External and internal forces act on structures.
3. Structural strength and stability depend on the properties of different materials and how they are joined.
4. Structures are designed, evaluated, and improved in order to meet human needs.



UNIT E – PLANET EARTH

Approximately 25 classes (Mar. – Apr.)

Major Concepts in Unit E:

1. Earth's surface undergoes gradual and sudden changes.
2. The rock cycle describes how rocks form and change over time.
3. Landforms provide evidence of change.
4. The fossil record provides evidence of Earth's changes over time.



EVALUATION AND GRADING

The summative work from each reporting period will make up 80% of the total mark. The Mid-Year Exam and the Final Exam of the year will be weighted at 10% each and make up the additional 20% of the students mark. Formative assessments will include some quizzes, in class assignments and homework assignments but will not be included in the students overall mark.

SCIENCE 7 MARKING SCHEME

- Assignments/Projects/Quizzes 40%
- Unit Exams 40%
- Mid-Year Final Exam (Units A & C) 10%
- Year End Final Exam (Units B, D, and E) 10%

NOTE: Students must write the Mid-Year & Final Exams at the end of the year. All students write the Mid-Year exam but may get exempt from writing the Final Exam if their mark is 90% or higher at the end of the year. The 80% breakdown of summative work made up by Unit Exams, Assignments, Projects, and Quizzes is subject to change at the teachers' discretion.

TUTORIAL

The last period of the day Monday-Thursday is called tutorial where students check in for attendance at their homeroom and are then able to use their time to study or work on any assignments they need to complete. Students may also sign-out from their homeroom with the teacher's permission to go get help from another teacher in any subject area. I highly recommend that students see me for extra help during this time if they are having trouble with any of the Science 7 concepts covered this year.

LATE ASSIGNMENTS

Students need to take responsibility for their own education and are expected to be responsible for handing in assignments on time. Handing in assignments on time will help prepare them for summative quizzes and exams. If a student is late with an assignment they will be referred to study hall until it is complete. Students have until the end of each quarter at the latest to get any missing assignments in unless other arrangements have been made. Parents or guardians of any student caught copying or cheating will be contacted immediately.

