

Science 7

2023-2024

Mayerthorpe Jr. Sr High School

Mrs. Madsen – hannah.madsen@ngps.ca (Semester 1 – Sept – Jan)

Miss Swainston - sydney.swainston@ngps.ca (Semester 2 – Feb – June)

COURSE DESCRIPTION

In Science 7 students will be using a variety of learning methods to focus on these five themes:

- Sustainability in balanced ecosystems.
- Processes which transform plants into food and fibre products.
- Heat and what heat-related technologies are used in a sustainable way.
- Loads and forces acting on structures and how strength and stability can be enhanced.
- Patterns in the nature and distribution of Earth's materials.

COURSE CURRICULUM OUTCOMES: *From the Alberta Science Program of Studies*

Science, Technology and Society (STS)—*Students will* develop an understanding of the nature of science and technology, the relationships between science and technology, and the social and environmental contexts of science and technology.

Knowledge—*Students will* construct knowledge and understandings of concepts in life science, physical science and Earth and space science, and apply these understandings to interpret, integrate and extend their knowledge.

Skills—*Students will* develop the skills required for scientific and technological inquiry, for solving problems, for communicating scientific ideas and results, for working collaboratively and for making informed decisions.

Attitudes—*Students will be encouraged to* develop attitudes that support the responsible acquisition and application of scientific and technological knowledge to the mutual benefit of self, society and the environment.

COURSE TOPICS/UNITS

DATES (approximate)

	COURSE TOPICS/UNITS	DATES (approximate)
1.	Unit A: Interactions and Ecosystems	September-October
2.	Unit B: Plants for Food and Fibre	November-December
3.	Unit D: Structures and Forces	January-February
4.	Unit C: Heat and Temperature	March-April
5.	Unit E: Planet Earth	May-June

RESOURCES/TEXTS/SUPPLIES

Textbook: Science in Action 7, Addison Wesley
Teacher Provided Resources

MATERIALS

Students are required to bring to each class:

- binder with lined paper
- writing utensil (blue or black pen, or pencil)
- assigned textbook

Student Expectations:

All current school procedures and policies must be followed. (<http://mayerthorpehigh.ca/parents-and-students/student-agenda>) Please note: The policy regarding **electronic devices** will be strictly enforced.

Disruptions of any kind will not be tolerated in class.

Cheating and plagiarism will not be tolerated. Anyone caught cheating or participating in plagiarism may receive a grade of zero for the assessment in question. Parents and administration will be contacted.

Students must be on time for class. They are expected to be in class at the bell. Students that miss 25% of the class will be marked absent. (10 min for 40 min class, 20 min for 80 min class)

No Bus Days: In the event of buses not running: I will run a drop-in Google Meet scheduled during regular class time. This will be time to ask questions, clarify concepts, work on assignments, have group discussions, etc. No new material will be covered but depending on the frequency of this situation, this could change.

Student Assessment:

Assessments are critical to guiding teaching and learning. Summative assessments are shared/returned with students to provide feedback on their learning. However, when a student does not complete an assessment, for security, that assessment can not be shared or returned to the other students. This delays the feedback to other students and creates inconsistencies in forwarding learning opportunities.

All assessments must be completed in a timely manner to support the learning for all students.

Assessments are a key piece of evidence in measuring student learning. Writing assessments are frequently permitted to be written outside of the classroom or without secure technology. With

emerging technology for students to generate pieces of writing that are not their own for submission, we have devised simple procedures to ensure that students will be submitting their own work for assessment.

- All writing assessments will be written on secure exam accounts
- All writing assessments must be written under supervision
- Students will not have access to internet during writing sessions

Students found plagiarizing or submitting work generated with artificial intelligence can not be assessed and will follow our school policies.

Rewrite Policy:

The purpose of reassessment is to allow a student to remove an *uncharacteristic grade*. Individual reassessments will only be granted in *extenuating circumstances*.

To qualify for a reassessment the following requirements must be met:

1. You must show evidence of preparing for the original assessment
 - a. For example:
 - i. Completion of all formative and summative assessments (assignments/quizzes/projects).
 - ii. Completion of practice questions/formative assessments
 - iii. Actively engaged in lessons/class/learning activities and effective use of class time.
2. You must review the assessment and receive feedback in order to establish an understanding of your grade.
 - a. For example:
 - i. A student/teacher conference
 - ii. Post assessment self-reflection
3. You must provide evidence of enhanced learning of the outcomes.
 - a. For Example:
 - i. Completion of teacher tutorial sessions
 - ii. Completion of additional practice materials
 - iii. Exam Analysis - identifying errors/common mistakes/distractors
4. You must arrange to meet for reassessment in a timely manner.
5. The reassessment may be in an alternative form than the original assessment, but will assess the same outcome(s) from the programs of study.

Course Evaluation

Quizzes and Unit Exams	50%
Assignments and Projects	30%
Midterm – January (First Semester)	10%
Final Exam – June (Second Semester)	10%
TOTAL	100%