

Grade 7 Science Course Outline

2023-2024

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Ste. Rose School

Course Outline

Grade 7 Science is a compulsory course that is general in nature and covers a wide range of Science topics. The course involves both group, and individual work. Attendance and consistent effort are required to maintain a continuous flow of student learning. Daily work must be kept up and deadlines met for students to achieve success in the course.

Cluster 1: Biodiversity and Interactions with Ecosystems Sept, Oct.

Students explore the diversity of life on Earth and how those living organisms interact within their living areas. Students will reach out into their own communities and discuss the various ecosystems in their area. Students will identify areas of concern in preserving and maintaining eco systems.

Cluster 2: Forces and Structure Nov, Jan.

Describe, using diagrams, how common structural shapes and components can increase the strength and stability of a structure. Determine the efficiency of a structure by comparing its mass with the mass of the load it supports. Students will be able to identify areas of weakness and what to look for in building structures.

Cluster 3: Earth's Crust Feb, April

Students will use appropriate vocabulary related to their investigations of the Earth's crust. Students will identify geologic resources that are present in Manitoba and Canada, and describe the processes involved in their location, extraction, processing, and recycling. Students will understand the process of the Rock Cycle.

Cluster 4: Particle Theory of Matter May, June

In this cluster, students explore the nature of science by examining the development of scientific theories. One theory, the particle theory of matter, is investigated in detail. Students will discuss and determine the potential harmful effects of some substances on the environment, and identify methods to ensure their safe use and disposal.

Classroom Materials

- Pen or Pencil
- Binder with paper
- Highlighter
- USB Stick
- Computer access
- Smart Television provided by school
- Textbook and Internet

Evaluation and Attendance

Regular, punctual attendance reflects a mature acceptance of the responsibilities entailed in attending school. The individual student must see that the consequences of non-attendance and missed deadlines fall squarely on his/her shoulders, not those of the teachers or parents. Students will also be instructed on how to get good grades.

65% Knowledge and understanding

Comprehension of key information provided from the materials introduced.

35% Scientific inquiry process and Problem solving

This process involves asking questions, doing research, constructing hypotheses, testing, analyzing results and drawing conclusions.

Class Expectations

You are expected to be on time, prepared to learn, and respectful to all people in the classroom. All assignments and projects must be completed and handed in on time to be considered for full marks. If you miss class, please notify the school, and know that it is your responsibility to get caught up. Contact the teacher and let them know if you are going to be away for an extended period of time. Please refer to the Ste. Rose School Handbook for more information.

As the teacher I also have responsibilities that include making sure your grade is accurate, meaningful, and consistent with your understanding, and making sure you

have the information you need to be successful. I will also have an open line of communication with your parents and/or guardians to ensure you are meeting everyone's expectations.

Please do not hesitate to ask if you need help with anything. I am always available during the school day, and I check my email at least once per evening.