**Grade 8 Science**

**Ste. Rose School 2025-2026 Ms. J. Slobodzian** **jslobodzian@trsd.ca**

**Grade 8 Science is comprised of 4 units:**

* Cells and Systems
* Fluids
* Optics
* Water Systems

In Grade 8, children investigate cells and systems. They learn about processes that take place inside the cell and use microscopes or prepared images to compare plant and animal cells. Children learn more about light as they explore reflection and refraction, mirrors and lenses and why objects appear to have colour. The eye is examined as a natural optical device with functioning resembling a camera. Learning about properties such as density and compressibility and explaining the relationships among pressure, volume and temperature are some ways that children increase their understanding of fluids. Water systems are another focus in Grade 8 and children investigate a variety of topics including fresh and salt water, ocean currents, erosion, flooding and drinking water.

**Evaluation:**

Your child’s learning and progress will be assessed in many ways. I will look closely at their learning by collecting samples of work, assigning tests and quizzes, and listening to them in conversations regarding the content we are studying.

I will assess how your child applies scientific inquiry skills, solves problems and makes decisions in science.

Your child’s progress will be reported under three areas of learning:

* **Knowledge and Understanding:** What does your child know and understand about the science themes and topics?

 – Knowledge is assessed through assignments, verbal communication, as well as quizzes and tests.

* **Scientific inquiry process:** How does your child ask questions, generate possible explanations, collect and analyze evidence, and reach conclusions based on evidence?

– Students will have an opportunity to explore scientific inquiry processes through interactive lessons, laboratory work as well as through research based projects.

* **Design process and problem solving***:* How does your child apply science learning to seek solutions to practical problems?

– Students will have opportunities to design and problem solve through many hands on activities, experiments, and projects throughout the year.

**Student expectations:**

-Attend class regularly

-Be on time for class

-Come to class prepared (binder, paper, writing supplies, and any other items verbally requested the previous class)

- Complete assignments on time

-Be responsible, respectful, and safe to yourself, others, and property

-Behave appropriately to ensure that students are not preventing the teacher from administering the lesson, or disrupting other students’ opportunity to learn

**Cell phone policy**

As per the Manitoba government and Turtle River School Division’s policy, no cell phones will be allowed during class time, unless directed for educational purposes by the teacher.

\****Note: Any of the above information could change at any given time based on the teacher’s discretion.***