

Crocus Plains Regional Secondary School

Course Outline – SCIENCE 9

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Course Overview

Grade 9 Science develops students' understanding of matter, electricity, genetics, reproduction, and evolution while strengthening scientific inquiry, critical thinking, and laboratory skills. Through investigations, labs, projects, and discussions, students will explore how science affects everyday life and the world around them.

General Learning Outcomes

Students will:

- Develop skills in scientific inquiry and laboratory safety.
- Strengthen critical thinking and problem-solving abilities.
- Build foundational knowledge in physical, life, and earth sciences.
- Understand how scientific principles connect to real-world applications.
- Develop positive attitudes toward science and scientific exploration.

Units of Study

SCIENTIFIC INQUIRY & LABORATORY SAFETY

- Scientific method
- Experimental design
- Lab safety and WHMIS
- Measurement and data analysis

MATTER & ATOMIC THEORY

- Pure substances and mixtures
- Physical and chemical changes
- Atomic structure
- Elements, compounds, and the periodic table
- Static electricity

ELECTRICITY & ENERGY

- Current, voltage, and resistance
- Series and parallel circuits
- Electromagnetism
- Electricity generation
- Electrical safety

REPRODUCTION & GENETICS

- Sexual and asexual reproduction
- Human reproductive systems
- DNA, genes, and chromosomes
- Inheritance and variation

EVOLUTION & ADAPTATION

- Natural selection
- Adaptation
- Fossil evidence
- Biodiversity and environmental change

Evaluation

Student achievement will be assessed through:

- Labs and investigations
- Quizzes and tests
- Projects and assignments
- Class activities
- Unit assessments
- Final assessment

Materials

- Binder or notebook
- Pens/pencils

Classroom Expectations

Students are expected to:

- Arrive on time and prepared
- Participate actively and respectfully
- Follow all safety procedures
- Complete assignments on time
- Demonstrate academic honesty
- Contribute positively to the learning environment

Extra Help

- Extra help is available **before school, at lunch, or by appointment**. Students are encouraged to seek assistance whenever needed.