Course Outline: Science 8

Parkside School

Mr. Clarke - jaredclarke@prrd8.ca Room: 137 2025-2026

Course Timeline

Topic	Time
Unit A: Mixture and Flow of Matter	September - October
Unit B: Cells and Systems	October - December
Unit C: Light and Optical Systems	January - February
Unit D: Mechanical Systems	March - April
Unit E: Freshwater and Saltwater Systems	May - June

Mark Distribution (per reporting period)

Assignments/projects	35%
Bell Work/Exit Slips/vocabulary	10%
Labs	10%
Quizzes	15%
Unit Tests	30%
Total	100%

Year End Mark Breakdown

Reporting Period 1	26.66&
Reporting Period 2	26.66%
Reporting Period 3	26.67%
Final	20%
Total	100%

Expectations/Information:

- Be on time for class, and come prepared! Remember your chromebook and all supplies for each class! Students will not be permitted to leave class to get forgotten items.
- Assignments not handed in by the deadline **will be marked as a 0** until the time that they are handed in.
- If you miss class, assignments and notes are on **google classroom**, you are expected to make them up! There will be extra help available to assist with this.

- To follow the cell phone policy! All personal electronic devices must be left in lockers, turned into the classroom bin, or turned off in bags (which in most cases should also be left in lockers.

Resources:

- Google Classroom - make sure you have joined the class
- Textbook - Science in Action 8
- Binder (with loose leaf and graph paper)
- Pencils, Pens, and Erasers
- Colors (markers or crayons or pencil crayons, etc)
- Calculator

By the end of the course you will have learned about:

- Unit A

- WHMIS symbols and nomenclature - Pure substances, mixtures, and solutions - Solute and solvent	- Concentration - Solubility, and saturation points - Particle model of matter	- Properties of fluids - Viscosity and flow rate - Mass, volume, density, pressure, and buoyancy

- Unit B

- Organisms - Cells - Organs	- Tissues - Structure and function - Systems	- Response to stimuli - Health and environmental factors

- Unit C

- Microscopes and telescopes - Contribution of technologies	- Sources of light - Reflection and refraction	- Visions and lenses - Imaging technologies - Transmission and absorption of light

- Unit D

- Design and function - Systems and subsystems - Hydraulics and pneumatics	- Transmission of force and motion - Simple machines - Measurement of work in joules	- Mechanical advantages, speed ratios, and force ratios

- Unit E

- Water quality - Waterborne materials - Erosion and deposition - Human impact	- Stream characteristics - Continental drainage systems - Ocean basins	- climates - Glaciers and icecaps - Adaptations to aquatic ecosystems