

Course: Science 14 School: Fairview High School School Year: 2022-2023, Semester 1 Teacher: Mr. John Abwe Room: 21 School website: fairviewhs@prsd.ab.ca	<u>Contact information:</u> Email: abwej@prsd.ab.ca Availability: Monday-Friday during regular school hours. Note: If you have trouble with any concepts, please contact me right away by email. Google Classroom class code:
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Introduction:

Science 14 encourages students to develop a critical sense of wonder and curiosity about scientific and technological endeavours. It prepares students to critically address science related societal, economic, ethical and environmental issues.

Materials:

- ✓ Science connect 1 (textbook provided by the school)
- ✓ Calculator, pen/pencil, binder, workbooks

Timeline:

There are four units in science 14. We will spend approximately one month on each unit.

Unit 1: Investigating Properties of Matter (Basic Chemistry)

Topics:

- ✓ Understanding matter
- ✓ Pure substance: Elements and compounds
- ✓ Mixtures and their uses
- ✓ Solutions and the environment

Unit 2: Energy Transfer Technologies (Basic Physics)

Topics:

- ✓ Heat and heat transfer
- ✓ Controlling heat transfer
- ✓ Simple machines and heat transfer

Unit 3: From Life to Lifestyle (Basic Biology)

Topics:

- ✓ Structures and functions of animal and plant cells
- ✓ Life functions common to living things
- ✓ Food for life
- ✓ Maintain homeostasis

Unit 4: Matter and Energy in the Biosphere (Environmental Studies)

Topics:

- ✓ The web of life
- ✓ Populations
- ✓ Ecosystems and biomes
- ✓ Protecting the environment

Evaluation:

For each unit, there will be a graded unit exam. Other graded assignments include labs, activities, and projects. The final exam will be cumulative. Your final grade will be allocated as follows:

- ✓ Labs, projects, other activities: 35%
- ✓ Unit exams: 40%
- ✓ Final exam: 25%

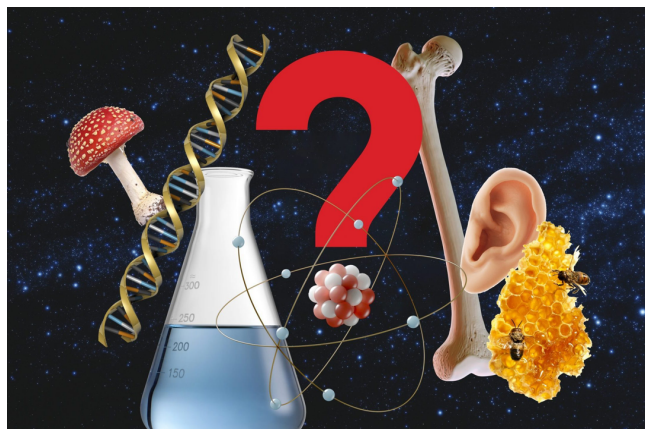
Preparedness:

It is imperative to come to class ready and willing to learn.

Students must bring their textbook, organized binder, pen, pencil, and calculator to class every day.

Expectations:

- See FHS student code of conduct. Respect, honesty, effort, and kindness are key.
- You are responsible to have assignments completed on or before the due date.
- You are responsible to catch up for any missed work if you are absent.
- No phones allowed during class. They must be left into your backpacks.



Have a great year!