**Teacher** Marie-Eve Owen Room: 141

**Teacher contact** arman.formaran@yesnet.yk.ca or tel. (867) 667-8044, rm 146

**Website** <https://armanformaran.weebly.com> for assignments, worksheets, answer keys, tutorial videos, due dates

**Textbooks** BC Science Connections 10 (Nelson)

**Supplies** Binder, lined paper, pencil, eraser, ruler, highlighters

**Recommended** Mastery of Science 9

**Student Behaviour** Follow lab safety rules

 Arrive on time, attend regularly, be prepared to work

 Be responsible for any missed material

 Be respectful

 Participate

**Evaluation:** Demonstrate understanding of the curricular content

 Demonstrate the ability to perform the curricular competencies

 Assignments 20%

 Tests 30%

 Project 10%

 Quizzes 20%

 Final Exam 20%

**Absence** during a quiz or test will result in 0% if unvalidated by a parent or guardian. An alternative date is set outside regular class hours.

**Re-tests** will be available with possible grade penalty.

**Plagiarism and cheating** will result in an automatic zero without opportunity to re-do.

**Curricular Content and Tentative Time Line (19 weeks)**

LAB SAFETY Jan. 18 - 23

UNIT 2 PHYSICAL SCIENCE (Chemical processes) Jan. 24 – Feb. 18

UNIT 1 LIFE SCIENCE (DNA) Feb. 9 - 28

UNIT 3 PHYSICAL SCIENCE (Energy) Mar. 1 – Apr. 24

UNIT 4 EARTH AND SPACE SCIENCE (The big bang theory) Apr. 25 – May 31

REVIEW Jun. 1 – 7

**Big Ideas:**

* **DNA** is the basis for the diversity of living things.
* **Chemical proce**sses require energy change as atoms rearrange.
* **Energy** is conserved, and its transformation can affect living things and the environment.
* **The universe** being formed can be explained by the Big Bang Theory.

**Curricular Competencies:**

* Questioning and predicting (purpose/hypothesis)
* Planning and conducting (procedure, lab skills, observations)
* Processing and analyzing data and information (analysis questions, graphing)
* Evaluating (draw conclusions, identifying sources of error and ideas for future experimentation)
* Applying and innovating (solve problems, design projects etc.)
* Communicating (develop/express ideas, create models, reflect on worldviews)

**Core Competencies:**

* Communication
* Creative thinking
* Critical thinking
* Positive personal and cultural identity
* Personal awareness and responsibility
* Social responsibility

For more detailed information visit: <https://curriculum.gov.bc.ca/curriculum/science/10/>