**SCIENCE 8 COURSE OUTLINE**

**Teacher:** Ms. Wilson,Room B108.

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**Website:** wilsonswebpage.com

**Textbook:** BC Science 8 McGraw-Hill Ryerson and BC Science 8 Connections

Byrne Creek Secondary 2023-24

**REQUIRED MATERIALS:**

* Pen/pencil/eraser
* Binder with lined paper and dividers
* Calculator

**COMPETENCIES (SKILLS) YOU WILL BE DEVELOPING:**

* **Questioning and Predicting** – Developing questions about the natural world
* **Planning and Conducting** – Gathering data using a variety of equipment and technology
* **Processing and Analysing** data and information – Finding patterns in data and describing relationships
* **Evaluating** – Questioning the validity of your data, your own bias and that of others. Examing the impacts of science on your life and relationships
* **Applying and innovating –** using your knowledge to solve local or world problems
* **Communicating** – your findings in a variety of appropriate formats
* Exploring ***First People’s Principles*** and traditional ways of knowing.

**CONTENT YOU WILL LEARNING:**

|  |  |
| --- | --- |
| Lab Safety | Safety Rules, WHMIS Symbols, Lab Equipment |
| Scientific Method | Experimental Design, Questioning and Predicting.  |
| Chemistry Unit | Properties of Matter, Classifying Matter, Kinetic Molecular Theory, Atomic History and Structure |
| Biology Unit | Characteristics of Living Things, Cell Theory, Cell Structures and Functions, Types of Cells, Microscopes, Immune System |
| Physics Unit | Electromagnetic Radiation, Light can behave light a particle or a wave, Vision |
| Earth Science Unit | Plate Tectonics: Layers of the Earth, Plate Boundaries, Volcanoes, Earthquakes |

**HOW YOU WILL BE ASSESSED:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Emerging (EMG)**  | **Developing (DEV)** | **Proficient (PRO)** | **Extending (EXT)** |
| With support, I can understand the basic ideas of this course. | I can understand the basic ideas of this course and have some basic skills | I fully understand the bid ideas of this course and can explain concepts and problem-solve with ideas.  | My work is exceptional and detailed. I can demonstrate high level of critical thinking and analysis, and make meaningful connections between ideas.  |

**CLASSROOM EXPECTATIONS:**

1. **Social responsibility**:
* Treat others and your environment with kindness, dignity and consideration. Be kind. Be helpful. Be safe.
1. **Personal responsibility**:
* **Come prepared:** Arrive on time, with all necessary supplies, ready to work.
* Follow all safety procedures.
* **Own your learning**: Stay on top of your work, recognize when you need to ask for help, and give it your all.
* **Absences:** All absences must be excused by a parent/guardian who calls the office before school starts on the day you are absent. If you miss a class, students are responsible to find out what was missed and get caught up in a timely fashion by checking the schedule at[**http://www.wilsonswebpage.com**](http://www.wilsonswebpage.com)**.**
* **Homework:** Expect regularly assigned homework to work on both in class and at home. Homework is to be completed and ready to be checked or handed *in at the beginning of class.*Late assignments will negatively affect the student’s work habit grade. *Late work will not be accepted if it does not meet the minimum requirements of a passing (50%) assignment*.
* **Cell phones:** Cellphones are not permitted during instructional time and are expected to be left in your backpack and turned off during class time. *Students caught using a device during instruction may have it removed from their person and placed on the white board ledge until the end of class.*Students may use cell phones to listen to music during independent work time only after asking for teacher permission

***Students are expected to:***

* **Be present**
* **Respect others**
* **Respect the learning environment**
* **Be safe**
* **Do your best**

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