**Science 7**

2018-19

**Course Outline**

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| **Instructor Information**:  Mrs. A. Smith  amanda.smith@phrd.ab.ca | Room 8  Website:<https://mrsamandadawnsmith.weebly.com/> |

*Mrs. Smith is available for student help at lunch Monday-Thursday and after school by appointment*

*Additional tutoring with a PA can be arranged Monday-Thursday in the BCHS library after school*

**Units of Study**:

The complete Science 7 curriculum can be downloaded from the Alberta Learning Website in .pdf format

<https://education.alberta.ca/media/3069389/pos_science_7_9.pdf>

**Units & Key Concepts***\* please note that all dates are tentative and subject to change\**

**Unit D – Structures and Forces (September – October 2018)**

* Students investigate the properties of materials used, and test them under different loads and forces. They examine ways that structural components are configured, analyze forces involved, and investigate resulting effects on structural stability. As part of their study, students also examine construction methods used in the past and present, and learn how science and technology link together in developing safe and efficient designs to meet human needs.

**Unit C- Heat and Temperature (November- December 2018)**

* Students investigate sources and uses of heat energy and consider the impact of resource usage on our long-term ability to meet energy needs. In focusing their studies, students explore different applications, investigate the scientific principles involved, and consider questions about the nature of heat. The particle model of matter is introduced to help students explain their observations and understand relationships between heat and temperature.

**Unit B- Plants for Food and Fibre (January- February, major project will continue until May)**

* Humans have always depended on plants as a source of food and fibre, and to meet a variety of other needs. To better meet these needs, technologies have been developed for selecting and breeding productive plant varieties and for maximizing their growth by modifying growing environments. Long-term sustainability requires an awareness of practices humans use and an examination of the impacts of these practices.

**Unit E- Planet Earth (March- April 2019)**

* The scientific study of Earth is based on direct observation of landforms and materials that make up Earth’s surface and based on sample evidence Earth’s interior. By studying this evidence, we discover patterns in the nature and distribution of Earth’s materials, and in the kinds of changes that take place. This knowledge can be used in developing models for geological structures and processes- models that help both scientists and students enlarge their understanding of their observation, and guide further investigation and research

**Unit A: Interactions and Ecosystems (April- June 2019)**

* Ecosystems develop and are maintained by natural processes and are affected by human action. To foster an understanding of ecosystems, this unit develops student awareness of ecosystem components and interactions, as well as natural cycles and processes of change. Building on this knowledge, students investigate human impacts and engage in studies that involve environmental monitoring and research. By reflecting on their findings, students become aware of the intended and unintended consequences of human activity, and recognize the need for responsible decision making and action.

**Assessment:**

Students are expected to keep track of individual task scores. I will keep you posted of your cumulative grade as the year progresses, and marks will be updated in Powerschool as they are given (minimum once per month).

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| --- | --- | --- |
| **Course Work – 85%**  summative assignments  lab analysis & graphing  unit projects | **Comprehensive Midterm, Final Exam & Project – 15%** | **Student Expectations**   * Think * Be Nice * Be respectful |

**Required Materials:**

|  |  |  |
| --- | --- | --- |
| Every Day | Often | Sometimes |
| Pen and/or pencil  Science Notebook  Marking pen  Eraser | Textbook  Scientific Calculator  Whiteboard markers  Coloured pencils/ markers | Ruler  Protractor  Highlighters |

**Classroom non-negotiables:**

There will be **no cell phones** in the classroom this year. If a cell phone is seen in Room 8, it will be taken to the office and a parent will need to pick it up.

If there is an emergency and you need to contact your child, please call the office (780) 674 8522. This will allow an adult to collect your child and help them deal with this difficult time.

**Late Assignment Policy:**

* Assignment due dates, are due dates.
* Ample class time will be given to complete activities, if time is used appropriately.
* When there are excused absences, I will accept late assignments upon returning to class. Assignments will be posted on google classroom.
* If an assignment is not finished on the due date, the student must sign up for lunch time help. Students are required to attend every lunch hour for assistance, until the assignment is complete. The student is not expected to stay for the entire lunch hour, but must attend at least the first 10 minutes. If the student does not attend the help session, the assignment will be accepted in its current state, or not be graded.

**Please sign this page and return it to Mrs. Smith**

**Student Expectations:**

* Think
* Be Nice
* Be respectful

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**Parent and/or Guardian Information:**

Preferred phone number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/ Guardian Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent and/or Guardian Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_