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| **Unit –Time** | **BC Big Ideas (Understand)** | **BC Curricular Competencies (Do)** | **BC Content (Know)** | **Instructional Strategies/ Learning Activities** | **Materials & Resources** | **Assessment Methods/Assessment Date** | **Key Vocabulary** |
| Biodiversity  Term 1  August 29- November 8, 2018 (11 weeks) | Living things are diverse, can be grouped, and interact in their ecosystems. | - What is biodiversity?  - What is the relationship between observable characteristics of living things and biodiversity?  - How does Aboriginal knowledge of living things honour interconnectedness? | - Biodiversity in the local environment  - Aboriginal knowledge of ecosystems  - Energy needed for life | Field Trip to Purple Island  Ecosystem Workbook activities (printed)  Jigsaw Biome Activity  Research biome/animals/impacts  “My organism research”  “My biome research”  *- desert biome recommended (local biome/ecosystem)  to teach first as an exemplar*  - growing a seed  - guest speaker (Dugongs) | Ecosystem workbook  BC Science Probe 4  Unit C: Habitats and Communities  “My organism research”  “My biome research”  Alternate Resources:  Pan-Canadian Grade 4  Healthy Habitats  Energy resources in library (a bit too high for G3  PM books about biodiversity. | Teacher will use their discretion to complete assessments throughout term 1 but aim to have it all completed before or during October 29-October 31st 2018  **Summative:**  Tests and quizzes identifying different ecosystems, characteristics of certain species and what are the different biomes.  <https://docs.google.com/document/d/1HuGOfeUfXfu994Vy2ffUluZaDl_BAsB5JC-Al9rKm_8/edit?usp=sharing>  Projects:  “My biome research”  September 16 -18, 2018  “My organism research”  October 21 -23, 2018  **Formative:**  Exit slips:  3 things I learned today  2 things I found interesting  1 question I still have | ecosystems  biodiversity  environment  characteristics  biome  tundra  desert  savanna  rainforest  grassland  food chain  species  food web  predator  prey  carnivore  herbivore  omnivore  decomposer  producer  consumer |
| Landforms  Term 2  November 12, 2018- February 18, 2019 (11 weeks) | Wind, water, and ice change the shape of the land. | - How is the shape of the land changed by environmental factors?  - What are landforms?  - What landforms do you have in your local area? | - Major local landforms  - Observable changes in the local environment caused by erosion and deposition by wind, water, and ice. | Powerpoint presentations about different landforms (on google drive)  Hands-on activity - make your own landform (requires students to make and identify landforms)  Mystery Science: How do Canyons Form? | Landforms Powerpoint  <https://docs.google.com/presentation/d/1tKXsfyEN9zhOyqlmoYptxsJ1OX40qJlVyQv97laAsZM/edit?usp=sharing>  https://www.brighthubeducation.com/science-fair-projects/104752-three-ideas-for-a-make-a-landform-project/  https://mysteryscience.com/water/mystery-3/erosion-earth-s-surface-landforms/114  Alternate resources:  BC Science Probe 4  Unit A: Weather  Chapter 3    PM books about different landforms. | Teacher will use their discretion to complete assessments throughout term 2 but aim to have it all completed before or during February 10 -14 2018.  **Summative:**  Project create your own landform.  January 29 -31, 2019.  Tests and quizzes identifying different types of landforms.  <https://docs.google.com/document/d/1NBHe59mt0ZJRvI4sPU_6KryBI5WAxi0024Cw5tBUxzQ/edit?usp=sharing>  **Formative:**  Exit slips:  3 things I learned today  2 things I found interesting  1 question I still have | landform  ocean  mountain  desert  plateau  valley  river  canyon  pond  island  lake  hill  plain  glacier  volcano |
| Matter  Term 3  February 19, 2019- March 26, 2019 (6 weeks) | All matter is made up of particles. | - Why is matter known as the material of the universe?  - What is an atom? What are its parts? | |  | | --- | | -Atoms  or molecules  as particles of  matter  - Properties  of materials  -matter is  anything that  has mass and  takes up space | | Experiments and Lab Reports  - icecream in a bag  - solar ovens  - “Naked Egg” | |  |  | | --- | --- | | Matter Matter  Everywhere  The Nature of  Matter  (G5-8 resource)  Grade 2  Resources that  explore states  of matter. |  |   PM books about Matter. | Teacher will use their discretion to complete assessments throughout term 3 but aim to have it all completed before  February 19 -March 26, 2019  **Summative:**  Tests and quizzes identifying what matter is, what the different parts to an atom are and using certain characteristics to describe states of matter.  https://docs.google.com/document/d/1NtByuuGHkVPa5OS\_KGCFp7lMxaxQAJhP8KZai9\_\_oQ0/edit?usp=sharing  **Formative:**  Exit slips:  3 things I learned today  2 things I found interesting  1 question I still have | matter  atom  material  experiment  solid  liquid  gas |
| Thermal Energy  Term 3  March 28, 2019- May 16th, 2019 (5 weeks) | Thermal energy can be produced and transferred. | - What are the sources of thermal energy?  - How is thermal energy transferred between objects? | - Sources of thermal energy  - Transfer of thermal energy | Experiments and Lab Reports.  - solar ovens  Heat Transfer Projects for Kids-Stem Activities:  <https://www.steampoweredfamily.com/activities/heat-transfer-projects-for-kids-stem-activities/> | Macmillan McGraw-Hill Science  Physical Science Unit E  Physical Science Unit F  PM books about Thermal Energy. | Teacher will use their discretion to complete assessments throughout the remainder of term 3 but aim to have it all completed before  May 26 -29 2019  **Summative:** Test and quizzes identifying sources of thermal energy and how its transferred.  **Formative:**  Exit slips:  3 things I learned today  2 things I found interesting  1 question I still have | experiment  energy  thermal  transferred  source  produce |