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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 IslandEcosystem Workbook activities (printed)Jigsaw Biome ActivityResearch 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 workbookBC Science Probe 4Unit C: Habitats and Communities“My organism research” “My biome research”Alternate Resources: Pan-Canadian Grade 4Healthy HabitatsEnergy resources in library (a bit too high for G3PM 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 today2 things I found interesting1 question I still have  | ecosystems biodiversityenvironmentcharacteristics biometundradesertsavannarainforest grasslandfood chainspeciesfood webpredatorpreycarnivoreherbivoreomnivoredecomposerproducerconsumer |
| LandformsTerm 2November 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/114Alternate resources: BC Science Probe 4Unit A: WeatherChapter 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 today2 things I found interesting1 question I still have  | landformoceanmountaindesertplateauvalleyrivercanyonpondislandlakehillplainglaciervolcano |
| MatterTerm 3February 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? |

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| -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” |

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| Matter Matter EverywhereThe Nature of Matter (G5-8 resource)Grade 2 Resources that explore statesof 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 today2 things I found interesting1 question I still have  | matteratommaterialexperimentsolidliquidgas |
| Thermal EnergyTerm 3March 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 ovensHeat Transfer Projects for Kids-Stem Activities:<https://www.steampoweredfamily.com/activities/heat-transfer-projects-for-kids-stem-activities/>  | Macmillan McGraw-Hill SciencePhysical Science Unit EPhysical Science Unit FPM 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 today2 things I found interesting1 question I still have  | experimentenergythermaltransferredsourceproduce |