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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** |
| Biology: Senses and ResponsesSept 2- Nov. 1 | All living things sense and respond to their environment. | -How do living things sense, respond, and adapt to stimuli?-What evidence is there of interdependence between living and non-living things in ecosystems? | ·Sensing and responding:humansother animalsplants·Biomes as large regions with similar environmental features | -The way organisms in ecosystems sense and respond to their environment.-Features of biomes. | Nelson: Science 4BC Science Probe 4Unit C: Habitats and CommunitiesChapters 8, 9, 10Delta kit:Plants and Animals Online resources:<http://www.nelson.com/bc/nelson-science/>[www.studyladder.com](http://www.studyladder.com) (free) [www.superteacherworksheets.com](http://www.superteacherworksheets.com) (subscription) - optional worksheet resource | Class Work:-What is the best habitat for certain animals.Assessments:-Bell work: September 23October 7, 14, -Project: Due October 28.-Quiz Week of September 30-Unit Test Oct. 21 |  HabitatCommunityEnvironmentOrganismSensesEcosystemAdaptationStructuralBehaviouralFood ChainFood Web |
| Chemistry: Phases of MatterNov 4. - Jan. 17 | Matter has mass, takes up space, and can change phase. | -How can you explore the phases of matter?-How does matter change phases?-How does heating and cooling affect phases? | ·Phases of matter·The effect of temperature on particle movement | -Solids, liquid and gasses as matter.-The effect of temperature on pressure in gas.-Physical changes of matter. |  Nelson: Science 4Macmillan McGraw-Hill Science:Physical ScienceUnit E and FOnline resources:<http://www.nelson.com/bc/nelson-science/>[www.studyladder.com](http://www.studyladder.com) (free) [www.superteacherworksheets.com](http://www.superteacherworksheets.com) (subscription) - optional worksheet resource | Class Work:-Types of matter worksheet.-Changing the state of matter.Project/Experiment:-Oobleck project-Thermal energy experimentAssessments:-Bell work: -Quiz-Unit Test | LiquidSolidGasStates of matterTemperatureHeatingEvaporationCondensation |
| Physics: Energy Jan. 20. - March 28 | Energy can be transformed.  | -What is energy input and energy output?-What is energy conservation?-What is the relationship between energy input, output, and conservation?-What is transformation of energy? | ·Energy: -Various forms -Is conserved·Devices that transform energy | Forms of EnergyConservation of EnergyEffect of temperature on energyTransformation of EnergyApplication and Innovations | Nelson: Science 4 Physics and Earth /SpaceMacmillan McGraw-Hill Science:Physical ScienceUnit E and FOnline resources:<http://www.nelson.com/bc/nelson-science/>[www.studyladder.com](http://www.studyladder.com) (free) [www.superteacherworksheets.com](http://www.superteacherworksheets.com) (subscription) - optional worksheet resource | Class Work:-Scavenger hunt for transform of energyProject/Experiment:-How to conserve energy at home and schoolAssessments:-Bell work:  -Quiz-Unit Test | EnergyChemical EnergyConservation of EnergyElastic EnergyElectrical EnergyMagnetic EnergyNuclear EnergyPotential EnergyKinetic EnergySound EnergyThermal EnergyVolume |
| Earth/Space: Earth, Sun and MoonApril 1st - May 29 | The motions of Earth and the moon cause observable patterns that affect living and non-living systems. | -What are the phases of the moon?-How do seasons and tides affect living and non-living things?-What changes are caused by the movement of Earth and the moon? | -Local changes caused by Earth’s axis, rotation, and orbit-The effects of the relative positions of the sun, moon, and Earth including local First Peoples perspectives | Earth rotates and revolvesPlants and animals respond to day and nightPlants and animals respond to seasonal changesPhases of the MoonMovement of the Moon causes tides | Nelson: Science 4 Physics and Earth /SpaceBC Science Probe 4Unit A: WeatherChapters 1, 2, 3Online resources:<http://www.nelson.com/bc/nelson-science/>[www.Mysteryscience.com](http://www.mysteryscience.com)[www.studyladder.com](http://www.studyladder.com) (free) [www.superteacherworksheets.com](http://www.superteacherworksheets.com) (subscription) - optional worksheet resource | Class Work:-Extreme weather worksheet.-Effect of mountains and oceans on climate worksheetProject:-Tracking moon phases.Assessments:-Bell work: -Quiz-Unit Test | SpringSummerWinterFallSeasonTemperatureAxisCycleEclipseEquatorGravityHibernateHigh tideLow tide |
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