

<b>Content</b>	<b>Planning for Assessment (Teaching Strategies)</b>	<b>Achievement Indicators (Assessment activities)</b>	<b>BC Curriculum Learning Outcomes</b>
<b>Physical Science: Study of Light</b>	Fieldtrip – identify sources (natural versus artificial) Experiment with light ray box and lenses, mirrors Experiment with refraction (pencil in glass of water) Experiment with relative transparency, translucency, opacity Discuss prisms, rainbow, light and colour, make predictions	Group work on light transmission, reflection, refraction In class diagrams on prism and light colours spread (roygbiv), Oral and written reports Quiz and test Class project and demonstration Journal 3 things I learned. How use this info. Questions I have. Further experiments.	Physical Science: Identify sources of light and sound Explain properties of light Processes of Science: Make predictions, supported by reasons and relevant to the content
<b>Physical Science: Study of Sound</b>	Study sound transmission through different materials Study musical instruments Discussion on vibration and frequency – pitch prediction Experimentation with making sound using vibration (ruler) – pitch (frequency) Build a basic string instrument (pencil box guitar) using elastics Build basic wind instrument (pan-pipe) using straws. Construct wine-glass harmonica Fieldtrip to see and hear a real pipe-organ	Experiments and reports Projects (building instruments) and assessment Open House music performance using student built musical instruments Oral an written presentations Quiz and test Journal 3 things I learned. How use this info. Questions I have. Further experiments.	Physical Science: Identify sources of light and sound Explain properties of sound Processes of Science: Make predictions, supported by reasons and relevant to the content
<b>Earth and Space Science: Weather</b>	Atmosphere and Weather What is atmosphere? Water cycle Sun – impact on weather Study weather: temperature, precipitation, cloud cover, wind speed and direction Build simple rain gauge, weather vane, and anemometer. Chart daily temp and precipitation, interpret data Identify and chart daily cloud cover “Grade 4 Weather Channel Project -make local weather reports and predictions  Impact of Weather on Living things and Non-Living things Freezing and thawing, discuss formation of surface ice (ice floats) – lakes do not freeze from bottom up – life survives! Insulation – slow down the ice cube melting experiment Freezing and thawing – road damage, rocks cracked Research impact of weather patterns, drought, monsoon, erosion (aerial pictures of Fraser River bed), Effects of run-off – river dikes!	Weather instrument construction Charting of weather data Interpretation of weather data and charts Oral/written weather reports and predictions  Classroom projects Individual reports Prediction on insulation value of materials Project on Fraser River dikes Quiz, test	Earth & Space Science: Measure weather in terms of temperature, precipitation, cloud cover, wind speed and direction Analyse impacts of weather on living and non-living things Processes of Science: Make predictions, supported by reasons and relevant to the content Use data from investigations to recognize patterns and relationships and reach conclusions
<b>Etc.</b>			