



Course Outline  
**Science Grade 6**  
 2023-2024



**Teacher:**

Mrs. O’Keefe



**Work will consist of:**

Test/Quizzes / Assignments/ Homework

Observations & Conversations →(A major part in the course)

Expectation is to follow the school rules, come to class prepare to do work. Everything that is done on the board is a part of your notes and must be written down. **You are expected to bring your notebooks and pencils every day.** Stay positive, work hard and respect yourself and others.

All homework and class notes are available on the school website <http://blackville.nbed.nb.ca/>

Click on the “Teacher’s Page ” → “Mrs. O’Keefe”

\*\*\*No phones in the classroom \*\*\*

The last few years there was a provincial assessment so we will assume that there will be one this year as well.

Below is a list of topics that we will focus on this year.

<b>The Nature of Science: Core ideas and contexts</b>	
<b>Behaviour and Properties of Light</b>	<ul style="list-style-type: none"> <li>• Light: Electromagnetic spectrum (EMS); Sources of visible light; Properties of light; Behavior of light e.g., dispersion, absorption and transmission; Law of reflection; Refraction; Shadow formation: shape, location and size</li> <li>• Sound: Properties; Propagation through different mediums (matter)</li> <li>• Olfactory (smell) receptors: biochemical and biophysical receptors</li> </ul>
<b>Biological Forms and Processes</b>	<ul style="list-style-type: none"> <li>• Interactions among sense organs, nerves and the brain enabling organisms to predict, analyse and respond to changes in their environments:               <ul style="list-style-type: none"> <li>- <b>Seeing</b> (Vision): Detection and response to visible light; Different kingdoms organs e.g., plants, eye spots, compound eyes, mammalian eyes, etc.; Model of human eye e.g., structures and functions</li> <li>- <b>Hearing</b> (Auditory): Detection and response; how do different organisms process sound; Model of human ear e.g., structures and functions</li> <li>- <b>Touch</b> (Tactile), <b>Taste</b> (Gustatory) and <b>Smell</b> (Olfactory): Conditions and diseases affecting organs; Prevention; Treatment</li> <li>- <b>Vestibular</b> (sense of balance) and <b>proprioception</b> (unconscious awareness of the position of our body parts)</li> </ul> </li> <li>• Information processing: brain, spinal cord, and nerve network (<i>Nervous System</i>)</li> </ul>
<b>Technological Applications</b>	<ul style="list-style-type: none"> <li>• Wayfinding technologies e.g., telescope, periscope, eyes, ears, camera, remote sensing, etc.</li> <li>• Corrective technologies e.g., eye glasses, hearing aid, etc.,</li> <li>• Adaptive technologies e.g., Braille, immersive reader, seeing-eye dog, etc.</li> </ul>