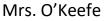


Course Outline Science Grade 6 2023-2024



Teacher:







## Work will consist of:

Test/Quizzes / Assignments/ Homework

Observations & Conversations  $\rightarrow$  (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 <a href="http://blackville.nbed.nb.ca/">http://blackville.nbed.nb.ca/</a>

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.

The Nature of Science: Core ideas and contexts	
Behaviour and Properties of Light	<ul> <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>
	<ul> <li>Interactions among sense organs, nerves and the brain enabling organisms to predict, analyse and respond to changes in their environments:</li> </ul>
Biological Forms and Processes	<ul> <li>Seeing (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>Hearing (Auditory): Detection and response; how do different organisms process sound; Model of human ear e.g., structures and functions</li> <li>Touch (Tactile), Taste (Gustatory) and Smell (Olfactory): Conditions and diseases affecting organs; Prevention; Treatment</li> <li>Vestibular (sense of balance) and proprioception (unconscious awareness of the position of our body parts)</li> <li>Information processing: brain, spinal cord, and nerve network (<i>Nervous System</i>)</li> </ul>
Technological Applications	<ul> <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>