

# Science Ed K-8 - Reading & Viewing Schedule

Session	Read/Watch/Listen
<p>1 (September 9)</p> <p>Welcome</p>	<p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">The Mind Explained: How to Focus</a> (S2 E1)</li> <li>• <a href="#">How science literacy can save us from the internet</a> (Neil deGrasse Tyson)</li> <li>• <a href="#">Loneliness</a> (Kurzgesagt)</li> <li>• <a href="#">We Have to Talk About Weed</a> (Kurzgesagt)</li> </ul>
<p>2 (September 11)</p> <p>Indigenous Principles and Pedagogies: Reciprocity</p>	<p><b>Read:</b> Chapter 6 - <a href="#">West - Physical – Reciprocity</a> from the book - Leddy, S., &amp; Miller, L. (2024). <i>Teaching where you are: Weaving Indigenous and slow principles and pedagogies</i>. University of Toronto Press. Also here: <a href="#">West - Physical - Reciprocity</a></p> <p><b>Watch:</b> <a href="#">Kinship and reconciliation in early childhood   Michael Redhead Champagne</a></p> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li>• <b>(Start at 3:55):</b> <a href="#">Niigaan Sinclair on Education</a>.</li> </ul> <p><b>Optional reading:</b></p> <ul style="list-style-type: none"> <li>• Manitoba Education and Early Childhood Learning. (2022). <a href="#">Mamàhtawisiwin: The wonder we are born with—An Indigenous education policy framework</a>. Province of Manitoba.</li> </ul>
<p>3 (September 16)</p> <p>Inquiry through an Indigenous Lens: Lighting the Fire and Sending Out Roots; The Flow of Knowledge and Breathing the World</p>	<p><b>Read five short sections (with accompanying videos):</b></p> <ol style="list-style-type: none"> <li>1. <a href="#">An Indigenous Lens on Natural Curiosity</a> (*Anderson et al., 2017, pp. 5-10).</li> <li>2. <a href="#">Lighting the Fire</a> (*Anderson et al., 2017, pp. 58-64) <b>Watch:</b> <a href="#">Natural Curiosity: Lighting the Fire</a></li> <li>3. <a href="#">Sending Out Roots</a> (*Anderson et al., 2017, pp.82-87 ) <b>Watch:</b> <a href="#">Natural Curiosity: Experiential Learning</a></li> <li>4. <a href="#">The Flow of Knowledge</a> (*Anderson et al., 2017, pp. 104-108) <b>Watch:</b> <a href="#">Natural Curiosity: Integrated Learning</a></li> <li>5. <a href="#">Breathing the World</a> (*Anderson et al., 2017, pp. 134-139) <b>Watch:</b> <a href="#">Natural Curiosity: Moving Towards Sustainability</a></li> </ol> <p>*Anderson, D., Chiarotto, L., &amp; Comay, J. (2017). <i>Natural curiosity: The importance of Indigenous perspectives in children’s environmental inquiry</i> (2nd ed.). Ontario Institute for Studies in Education, University of Toronto. <a href="https://www.naturalcuriosity.ca/englishbook">https://www.naturalcuriosity.ca/englishbook</a></p>

# Science Ed K-8 - Reading & Viewing Schedule

	<p><b>Optional reading and viewing:</b></p> <ul style="list-style-type: none"> <li>• Canadian Commission for UNESCO (CCUNESCO). (2021). <a href="#">Land as Teacher: Understanding Indigenous land-based education</a>.</li> <li>• <a href="#">Indigenous teachers are getting community-based training that keeps education close to home</a> (CBC News).</li> <li>• <a href="#">Indigenous Ways of Knowing</a> (Background for Educators) (LSF).</li> <li>• <a href="#">Indigenous Ways of Knowing</a> (Video) (LSF)</li> </ul>
<p>4 (September 18)</p> <p><i>Introduction to the Wonder of Science</i></p>	<p><b>Read three sections:</b> Koch J. (2018). <i>Science Stories: Science Methods for Elementary and Middle School Teachers</i> (6th ed.). Cengage Learning. (1. <a href="#">pp. 4-9</a>; 2. <a href="#">19-22</a>; 3. <a href="#">pp. 68-74</a>)</p> <p><b>Optional reading and viewing:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">What is Climate Change and Why Care?</a> (LSF, pp. 3-5)</li> <li>• <a href="#">How Does Climate Change Affect Our World?</a> (LSF, pp. 2-5)</li> <li>• <a href="#">David Attenborough: A Life on Our Planet</a></li> <li>• <a href="#">Intro to the History of Science</a> (Crash Course)</li> </ul>
<p>5 (September 23)</p>	<p><b>Field Trip: Fort Whyte Alive</b></p>
<p>6 (September 25)</p> <p>Creativity</p>	<p><b>Watch:</b> <a href="#">Foodspiracy (The Nature of Things)</a> (CBC Gem)</p> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Is Meat Really that Bad?</a> (Kurzgesagt)</li> <li>• <a href="#">Explained - The Future of Meat</a> (S2 E3); <a href="#">The End of Oil</a> (S3 E10)</li> </ul> <p><b>Egg Drop Challenge</b>  <b>Please bring your egg shuttle for the big event!</b></p>
<p>7 (October 2)</p> <p>Communication</p>	<p><b>Watch two short videos:</b></p> <ol style="list-style-type: none"> <li>1. <a href="#">Can You Fix Climate Change?</a> (Kurzgesagt)</li> <li>2. <a href="#">We Will Fix Climate Change</a> (Kurzgesagt)</li> </ol> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">True Survivors (The Nature of Things)</a> (CBC Gem)</li> </ul> <p><b>Optional reading:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Nature as a Classroom</a> (DSF)</li> <li>• <a href="#">Framework for Learning</a> (MB Education)</li> </ul>
<p>8 (October 7)</p> <p>Citizenship</p>	<p><b>Watch:</b> <a href="#">Why Climate Action Is Unstoppable and “Climate Realism” Is a Myth</a> (Al Gore, TED)</p> <p><b>Read:</b> Windschitl, M. (2023). <i>Teaching Climate Change: Fostering Understanding, Resilience, and a Commitment to Justice</i>. Harvard Education Press. (<a href="#">pp. 97-111</a>)</p>

# Science Ed K-8 - Reading & Viewing Schedule

	<p><b>Optional listen:</b></p> <ul style="list-style-type: none"> <li>Palmer, M. (Host). (September 18, 2023). <i>Teaching Climate Change with Dr. Mark Windschitl</i> [Audio podcast]. Trending in Ed with Mike Palmer. <a href="https://trendingineducation.com/2023/09/teaching-climate-change/">https://trendingineducation.com/2023/09/teaching-climate-change/</a></li> </ul>
<p>9 (October 9)</p> <p>Connection to Self</p>	<p><b>Read:</b></p> <ol style="list-style-type: none"> <li>^8 Case: I'm Not Stupid in <i>Your Classroom!</i> - Deborah Hanuscin</li> <li>^9 Commentary: Designing Equitable Science Instruction for All Students - Delinda van Garderen</li> </ol> <p><a href="https://link-springer-com.uwinnipeg.idm.oclc.org/book/10.1007/978-3-031-33418-4">https://link-springer-com.uwinnipeg.idm.oclc.org/book/10.1007/978-3-031-33418-4</a></p> <p>^Jeong, S., Bryan, L. A., Tippins, D. J., &amp; Sexton, C. M. (Eds.). (2023). <i>Navigating Elementary Science Teaching and Learning: Cases of Classroom Practices and Dilemmas</i>. Springer.</p> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li><a href="#">Animal Pride (Nature of Things)</a> (CBC Gem)</li> </ul>
<p>10 (October 14)</p> <p>Critical Thinking</p>	<p><b>Read:</b> Hobbs, R. (2026). <a href="#">How do people become media literate?</a> (Chapter 14). In <i>Media Literacy in Action: Questioning the Media</i> (2nd ed., pp. 357-387). Rowman &amp; Littlefield.</p> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li><a href="#">Breaking Boundaries: The Science of our Planet</a></li> <li><a href="#">The Tipping Points of Climate Change — and Where We Stand   Johan Rockström   TED</a></li> </ul>
<p>11 (October 16)</p> <p>Collaboration</p>	<p><b>Read:</b> Sperry, Chris, and Cyndy Scheibe. <i>Teaching Students to Decode the World : Media Literacy and Critical Thinking Across the Curriculum</i>. First edition., ASCD, 2022. (<a href="#">chapter 2</a>)</p> <p><b>Preview for the next session:</b> Green, J. (2019). <a href="#">Crash Course Navigating Digital Information Preview</a>. CrashCourse.</p> <p><b>Optional reading:</b></p> <ul style="list-style-type: none"> <li><a href="#">How to protect yourself from false health information spreading online</a> (CBC News)</li> </ul> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li><a href="#">Rebellion (The Nature of Things)</a> (CBC Gem)</li> <li><a href="#">Shared Planet: Forests (Nature of Things)</a> (CBC Gem)</li> </ul>
<p>12 (October 21)</p> <p>Navigating Digital Information</p>	<p><b>Watch five short videos:</b></p> <ol style="list-style-type: none"> <li>Green, J. (2019, January 8). <a href="#">Introduction to Crash Course Navigating Digital Information #1</a>. CrashCourse.</li> <li>Green, J. (2019, January 15). <a href="#">The Facts about Fact Checking: Crash Course Navigating Digital Information #2</a>. CrashCourse.</li> </ol>

# Science Ed K-8 - Reading & Viewing Schedule

	<ol style="list-style-type: none"> <li>3. Green, J. (2019, January 22). <a href="#">Check Yourself with Lateral Reading: Crash Course Navigating Digital Information #3</a>. CrashCourse.</li> <li>4. Green, J. (2019, January 29). <a href="#">Who Can You Trust? Crash Course Navigating Digital Information #4</a>. CrashCourse.</li> <li>5. Green, J. (2019, February 5). <a href="#">Using Wikipedia: Crash Course Navigating Digital Information #5</a>. CrashCourse.</li> </ol> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li>• Smooth, J. (2018, February 27). <a href="#">Introduction to Media Literacy: Crash Course Media Literacy #1</a>. CrashCourse.</li> <li>• Smooth, J. (2018, March 20). <a href="#">Media and the Mind: Crash Course Media Literacy #4</a>. CrashCourse.</li> <li>• Smooth, J. (2018, May 1). <a href="#">The Dark(er) Side of Media: Crash Course Media Literacy #10</a>. CrashCourse.</li> <li>• Tavlin, N. (2015, August 27). <a href="#">How false news can spread</a>. TED-Ed.</li> </ul>
<p>13 (October 23)</p> <p>Evaluating Evidence, Photos and Videos, and Data; Navigating Clickbait and Social Media</p>	<p><b>Watch five short videos:</b></p> <ol style="list-style-type: none"> <li>1. Green, J. (2019, February 12). <a href="#">Evaluating Evidence: Crash Course Navigating Digital Information #6</a>. CrashCourse.</li> <li>2. Green, J. (2019, February 19). <a href="#">Evaluating Photos &amp; Videos: Crash Course Navigating Digital Information #7</a>. CrashCourse.</li> <li>3. Green, J. (2019, February 26). <a href="#">Data &amp; Infographics: Crash Course Navigating Digital Information #8</a>. CrashCourse.</li> <li>4. Green, J. (2019, February 26). <a href="#">Click Restraint: Crash Course Navigating Digital Information #9</a>. CrashCourse.</li> <li>5. Green, J. (2019, March 12). <a href="#">Social Media: Crash Course Navigating Digital Information #10</a>. CrashCourse.</li> </ol> <p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li>• Smooth, J. (2018, May 8). <a href="#">Media Skills: Crash Course Media Literacy #11</a>. CrashCourse.</li> </ul>

# Science Ed K-8 - Reading & Viewing Schedule

	<ul style="list-style-type: none"> <li>Smooth, J. (2018, May 15). <a href="#">Future Literacies: Crash Course Media Literacy #12</a>. CrashCourse.</li> </ul> <p><b>Optional reading:</b></p> <ul style="list-style-type: none"> <li>(Kozak &amp; Elliot, 2014, pp. 5-31) [<a href="#">Connecting the Dots</a>]</li> <li>(Kozak &amp; Elliot, 2014, pp. 32-51) [<a href="#">Connecting the Dots</a>]</li> </ul>
<p><b>14</b> (October 28) - Group Presentation - Group A</p>	<p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li><a href="#">Shared Planet: Cities (Nature of Things)</a> (CBC Gem)</li> <li><a href="#">The Nature of Things: Suzuki Signs Off</a> (CBC)</li> <li><a href="#">AI: Humanity's Final Invention?</a> (Kurzgesagt)</li> </ul>
<p><b>15</b> (October 30) Group Presentation - Group B</p>	<p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li><a href="#">Manufactured Landscapes</a> (CBC Gem)</li> <li><a href="#">The Water Crisis</a> (Explained; S1 E2)</li> <li><a href="#">Is it Hard to Be Green?</a> (LSF video)</li> </ul>
<p><b>16</b> (November 4) Group Presentation - Group C</p>	<p><b>Optional listening:</b></p> <ul style="list-style-type: none"> <li>Buckiewicz, A. (2024, April 19). <i>An Indigenous ecologist on why we need to stop and listen to save the planet</i>. Quirks and Quarks (CBC Radio). <a href="https://www.cbc.ca/radio/quirks/indigenous-scientist-earth-medicine-1.7178030">https://www.cbc.ca/radio/quirks/indigenous-scientist-earth-medicine-1.7178030</a></li> </ul>
<p><b>17</b> (November 6) Group Presentation - Group D</p>	<p><b>Optional viewing:</b></p> <ul style="list-style-type: none"> <li><a href="#">Denmark's Forest Kindergartens</a> and <a href="#">The Rise of Forest Schools</a></li> <li><a href="#">Jane talks Roots &amp; Shoots with Jimmy Fallon</a></li> </ul> <p><b>Optional read:</b></p> <ul style="list-style-type: none"> <li><a href="#">Roots and Shoots Program</a>, scroll down and click on</li> <li><a href="#">Are you an adult champion? Get started here.</a></li> </ul>
<p><b>18</b> (November 13)  <i>Generative AI for Educators</i>  Goodbye for now</p>	<p><a href="#">Asynchronous Online Session</a> - post your completed AI Foundations for Educators Workbook and Certificate of Completion, along with your Participation Rubric Self-Assessment, in the Participation folder on Nexus</p> <p><b>Optional viewing and reading:</b></p> <ul style="list-style-type: none"> <li><a href="#">Curb Your Carbon</a> (CBC Gem)</li> <li><a href="#">Is it Hard to Be Green?</a> (LSF, pp. 2-4)</li> <li>Blenkinsop, S., &amp; Kuchta, E. (2024). <i>Ecologizing education: Nature-centered teaching for cultural change</i>. Cornell University Press. <a href="#">pp. 1-39</a>.</li> <li><a href="#">The Reason You're Alone</a> (Kurzgesagt)</li> <li><a href="#">The Best Way to Boost Your Immune System (With Science!)</a> (Kurzgesagt)</li> <li><a href="#">How Does Addressing Climate Change Make Us Healthier?</a> (LSF, pp. 2-5)</li> </ul>