SNC1W Course Map

Grade 9 Science, De-streamed (2022). SNC1W, Grade 9 Science, Course Map

A complete, ready-to-teach semester of SNC1W: 73 lessons of 75 minutes in six units, with a day-by-day schedule for 88 class periods. Every unit has a unit overview, an assessment of learning with a four-level Growing Success rubric, and Word, PowerPoint and PDF files. Units 2 to 5 include a unit test with an answer key. Labs use cheap, common materials, every hands-on activity has safety notes, and all data sets, scenarios and examples are original.

Units

#	Unit	Lessons	Strands	Assessment of learning	Weight
1	**Thinking Like a Scientist**	8	A (all)	Fair Test Investigation and lab report	6%
2	**Sustainable Ecosystems and Climate Change**	15	B, with A	Local Ecosystem Health Report (7%); unit test (5%)	12%
3	**The Nature of Matter**	15	C, with A	Product Life Cycle Assessment (7%); unit test (5%)	12%
4	**Electricity**	16	D, with A	Energy Action Plan (8%); unit test (5%)	13%
5	**Space Exploration**	13	E, with A	Canadian Space Mission Proposal (7%); unit test (5%)	12%
6	**Science in Our Community**	6	A, with B to E	Culminating task (10%); final written exam (20%)	30%

Evaluation plan (Ontario, 2026–27)

Component	What it includes	Weight
Classroom work	Unit summatives and unit tests in Units 1 to 5 (55%), plus the culminating task, Science in Our Community: a design project on a local problem, with a design log, presentation and individual reflection (10%)	65%
Final written exam	A 75-minute written exam across all strands and STEM skills, with an answer key	20%
Attendance and participation	Recorded by the teacher under the board's procedures; not a K9 resource	15%

Ontario's assessment policy for 2026–27 sets the Grade 9 and 10 final mark as 65% classroom work, 20% final evaluation and 15% attendance and participation; in science the 20% is a written exam. Unit weights within the 65% are suggestions; adjust them to your school's practice. Assessment for and as learning (exit tickets, quick checks, labs and self-checks) gives feedback and is not counted in the grade. Rubrics use the four achievement chart categories: Knowledge and Understanding, Thinking and Investigation, Communication, and Application.

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Strands

- A. STEM Skills, Careers, and Connections (taught in Unit 1 and practised in every unit)
- B. Biology: Sustainable Ecosystems and Climate Change
- C. Chemistry: The Nature of Matter
- D. Physics: Principles and Applications of Electricity
- E. Earth and Space Science: Space Exploration

Coding (A1.4) appears in every content unit, using free Python (python.org) or a free browser-based editor approved by your board, with a block-based option for support.

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Day-by-Day Schedule

88 periods of 75 minutes. SNC1W, Grade 9 Science, Course Map

Day	Unit	Lesson or activity	Expectations
1	Unit 1	L1. Welcome to the Lab	A1.5, A1.2
2	Unit 1	L2. Asking Testable Questions	A1.2, A1.1
3	Unit 1	L3. Measuring and Recording Data	A1.2, A1.4, A1.5
4	Unit 1	L4. The Fair Test Lab	A1.2, A1.5, A1.4
5	Unit 1	L5. Research Like a Scientist	A1.1, A2.4
6	Unit 1	L6. Code the Data	A1.4, A1.2
7	Unit 1	L7. Engineering Design Challenge	A1.3, A2.1, A1.5
8	Unit 1	L8. Who Does Science?	A2.5, A2.2, A2.3
9	Unit 1	Summative investigation (data collection and lab report)	
10	Unit 2	L1. What Is an Ecosystem?	B2.1, A1.1
11	Unit 2	L2. Build an Eco-Column	B2.1, A1.3, A1.2
12	Unit 2	L3. Energy Flow	B2.2
13	Unit 2	L4. Cycling Matter	B2.2, B2.1
14	Unit 2	L5. Photosynthesis Lab	B2.3, A1.2, A1.5
15	Unit 2	L6. Respiration Lab	B2.3, A1.5, A1.2
16	Unit 2	L7. Biodiversity and Succession	B2.4, A1.2
17	Unit 2	L8. Soil, Air and Water Quality	B2.4, A1.2, A1.5
18	Unit 2	L9. Human Impacts	B2.5, A2.4
19	Unit 2	L10. Reading the Climate Signal	B2.6, A1.4
20	Unit 2	L11. Climate Change and Ecosystems	B1.1, B2.6
21	Unit 2	L12. Climate Change and Communities	B1.2, A2.3
22	Unit 2	L13. Learning from the Land	B1.3, A2.5
23	Unit 2	L14. Farming the Future	B2.7, A2.1
24	Unit 2	L15. Taking Action	B1.1, A2.4
25	Unit 2	Summative work period: Local Ecosystem Health Report	
26	Unit 2	Unit test	
27	Unit 3	L1. Sorting Matter	C2.6, C2.1
28	Unit 3	L2. Density Lab	C2.6, A1.2
29	Unit 3	L3. Physical or Chemical Change?	C2.6, C2.1, A1.5
30	Unit 3	L4. Models of the Atom	C2.2, A1.1
31	Unit 3	L5. Inside the Atom	C2.3, C2.4

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Day	Unit	Lesson or activity	Expectations
32	Unit 3	L6. The Periodic Table	C2.4, C2.5
33	Unit 3	L7. Patterns in the Table	C2.5, A1.4, A1.5
34	Unit 3	L8. Element Families	C2.4, C2.5
35	Unit 3	L9. Compounds and Formulas	C2.7, C2.4
36	Unit 3	L10. Chemistry Under the Sink	C2.6, A1.5
37	Unit 3	L11. Matter in Ecosystems	C2.1, C2.6
38	Unit 3	L12. Life Cycle of a Product	C1.1, A2.4
39	Unit 3	L13. Emerging Chemical Technologies	C1.2, A2.2
40	Unit 3	L14. Chemists Who Changed the World	A2.5, C1.2
41	Unit 3	L15. Summative Workshop	C1.1, C2.6
42	Unit 3	Summative work period: Product Life Cycle Assessment	
43	Unit 3	Unit test	
44	Unit 4	L1. Static Charges	D2.1, A1.2
45	Unit 4	L2. Charging and Discharging	D2.1, A1.2, A1.3
46	Unit 4	L3. Conductors and Insulators	D2.2, D2.1, A1.5
47	Unit 4	L4. Circuit Components	D2.3, D2.1, A1.5
48	Unit 4	L5. Current, Voltage and Resistance	D2.3, A1.2
49	Unit 4	L6. Ohm's Law Lab	D2.4, A1.2, A1.5
50	Unit 4	L7. Ohm's Law in the Real World	D2.5, D2.4
51	Unit 4	L8. Code a Circuit Calculator	D2.5, A1.4
52	Unit 4	L9. Series Circuits	D2.6, D2.5, A1.5
53	Unit 4	L10. Parallel Circuits	D2.6, D2.5, A1.3
54	Unit 4	L11. Electricity vs Electrical Energy	D2.7, D1.2
55	Unit 4	L12. Efficiency and Energy Transformations	D2.8, D2.7
56	Unit 4	L13. Generating Electricity	D1.1, A2.4
57	Unit 4	L14. Energy and Communities	D1.2, A2.3, D1.1
58	Unit 4	L15. Storing Tomorrow's Energy	D1.4, A2.2, A1.5
59	Unit 4	L16. Energy Action Plan	D1.3, D1.2, D2.7
60	Unit 4	Summative work period: Energy Action Plan	
61	Unit 4	Unit test	
62	Unit 5	L1. Our Place in Space	E2.4, A2.4
63	Unit 5	L2. How Far Is Far?	E2.5, A1.2
64	Unit 5	L3. Code the Cosmos	E2.5, A1.4

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Day	Unit	Lesson or activity	Expectations
65	Unit 5	L4. Our Star	E2.1, A1.5, A1.2
66	Unit 5	L5. Sun Power	E2.2, A1.2, A1.5
67	Unit 5	L6. Seasons and Days	E2.6, A1.2, A1.5
68	Unit 5	L7. Moon Phases and Eclipses	E2.6, A1.2
69	Unit 5	L8. Where Did It All Come From?	E2.3, A1.1
70	Unit 5	L9. Many Ways of Knowing the Sky	E2.3, A2.5, A1.1
71	Unit 5	L10. Eyes in the Sky	E1.2, B2.6, A1.2
72	Unit 5	L11. Space Spin-offs	E1.3, A1.3, A2.2
73	Unit 5	L12. Is Space Worth It?	E1.1, A2.3, A2.4
74	Unit 5	L13. Mission Workshop	E1.1, E1.3, E2.5, A2.1
75	Unit 5	Summative work period: Canadian Space Mission Proposal	
76	Unit 5	Unit test	
77	Unit 6	L1. Find a Local Problem	A2.4, A2.3, A1.1
78	Unit 6	L2. Research and Plan	A1.1, A2.1
79	Unit 6	L3. Design and Build	A1.3, A1.2, A1.5
80	Unit 6	Culminating work period: build	
81	Unit 6	L4. Test and Improve	A1.2, A1.5, A1.4
82	Unit 6	Culminating work period: improve and prepare	
83	Unit 6	L5. Present Your Solution	A2.1, A2.2, A2.4
84	Unit 6	Culminating presentations, continued	
85	Unit 6	L6. Course Review	B2, C2, D2, E2
86	Unit 6	Review and catch-up	
87	Unit 6	Final evaluation	
88	Flex	Catch-up, assemblies, labs that run long, or extra review	

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Expectation Coverage

All 50 specific expectations, and the lessons that teach them. SNC1W, Grade 9 Science, Course Map

Code	Taught in
A1.1	U1 L2, U1 L5, U2 L1, U3 L4, U5 L8, U5 L9, U6 L1, U6 L2
A1.2	U1 L1, U1 L2, U1 L3, U1 L4, U1 L6, U2 L2, U2 L5, U2 L6, U2 L7, U2 L8, U3 L2, U4 L1, U4 L2, U4 L5, U4 L6, U5 L2, U5 L4, U5 L5, U5 L6, U5 L7, U5 L10, U6 L3, U6 L4
A1.3	U1 L7, U2 L2, U4 L2, U4 L10, U5 L11, U6 L3
A1.4	U1 L3, U1 L4, U1 L6, U2 L10, U3 L7, U4 L8, U5 L3, U6 L4
A1.5	U1 L1, U1 L3, U1 L4, U1 L7, U2 L5, U2 L6, U2 L8, U3 L3, U3 L7, U3 L10, U4 L3, U4 L4, U4 L6, U4 L9, U4 L15, U5 L4, U5 L5, U5 L6, U6 L3, U6 L4
A2.1	U1 L7, U2 L14, U5 L13, U6 L2, U6 L5
A2.2	U1 L8, U3 L13, U4 L15, U5 L11, U6 L5
A2.3	U1 L8, U2 L12, U4 L14, U5 L12, U6 L1
A2.4	U1 L5, U2 L9, U2 L15, U3 L12, U4 L13, U5 L1, U5 L12, U6 L1, U6 L5
A2.5	U1 L8, U2 L13, U3 L14, U5 L9
B1.1	U2 L11, U2 L15
B1.2	U2 L12
B1.3	U2 L13
B2.1	U2 L1, U2 L2, U2 L4
B2.2	U2 L3, U2 L4
B2.3	U2 L5, U2 L6
B2.4	U2 L7, U2 L8
B2.5	U2 L9
B2.6	U2 L10, U2 L11, U5 L10
B2.7	U2 L14
C1.1	U3 L12, U3 L15
C1.2	U3 L13, U3 L14
C2.1	U3 L1, U3 L3, U3 L11
C2.2	U3 L4
C2.3	U3 L5
C2.4	U3 L5, U3 L6, U3 L8, U3 L9
C2.5	U3 L6, U3 L7, U3 L8
C2.6	U3 L1, U3 L2, U3 L3, U3 L10, U3 L11, U3 L15
C2.7	U3 L9

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Code	Taught in
D1.1	U4 L13, U4 L14
D1.2	U4 L11, U4 L14, U4 L16
D1.3	U4 L16
D1.4	U4 L15
D2.1	U4 L1, U4 L2, U4 L3, U4 L4
D2.2	U4 L3
D2.3	U4 L4, U4 L5
D2.4	U4 L6, U4 L7
D2.5	U4 L7, U4 L8, U4 L9, U4 L10
D2.6	U4 L9, U4 L10
D2.7	U4 L11, U4 L12, U4 L16
D2.8	U4 L12
E1.1	U5 L12, U5 L13
E1.2	U5 L10
E1.3	U5 L11, U5 L13
E2.1	U5 L4
E2.2	U5 L5
E2.3	U5 L8, U5 L9
E2.4	U5 L1
E2.5	U5 L2, U5 L3, U5 L13
E2.6	U5 L6, U5 L7

From The Ontario Curriculum, Grade 9: Science, De-streamed (SNC1W), 2022. A = STEM Skills, Careers, and Connections; B = Biology; C = Chemistry; D = Physics; E = Earth and Space Science.

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