SNC2D Course Map

Grade 10 Science, Academic (2008 curriculum). SNC2D, Grade 10 Science, Course Map

A complete, ready-to-teach semester of SNC2D: 72 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	**Science Skills Launch**	4	A (all)	Lab Skills Practical and report	5%
2	**Tissues, Organs and Systems**	16	B, with A	Systems Biology Issue Report (7%); unit test (5%)	12%
3	**Chemical Reactions**	15	C, with A	Antacid neutralization inquiry (7%); unit test (5%)	12%
4	**Climate Change**	15	D, with A	Climate Initiative Assessment and Action Proposal (7%); unit test (5%)	12%
5	**Light and Geometric Optics**	16	E, with A	Optical Device Design Challenge (7%); unit test (5%)	12%
6	**Independent Investigation**	6	A, with B to E	Culminating investigation (12%); final written exam (20%)	32%

Evaluation plan (Ontario, 2026–27)

Component	What it includes	Weight
Classroom work	Unit summatives and unit tests in Units 1 to 5 (53%), plus the culminating Independent Investigation: an inquiry or research investigation with a proposal, safety plan, analysis and presentation (12%)	65%
Final written exam	A written exam of about 90 minutes across all four strands and investigation 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.

© 2026 K9solutions

Strands

- A. Scientific Investigation Skills and Career Exploration (taught in Unit 1 and practised in every unit)
- B. Biology: Tissues, Organs, and Systems of Living Things
- C. Chemistry: Chemical Reactions
- D. Earth and Space Science: Climate Change
- E. Physics: Light and Geometric Optics

Every calculation in the course (significant digits, percent error, balancing equations, the mirror and thin lens equations, magnification and the index of refraction) comes with a worked solution.

© 2026 K9solutions

Day-by-Day Schedule

88 periods of 75 minutes. SNC2D, Grade 10 Science, Course Map

Day	Unit	Lesson or activity	Expectations
1	Unit 1	L1. Lab Safety Refresh	A1.4, A1.2
2	Unit 1	L2. Inquiry and the Lab Report	A1.1, A1.5, A1.10, A1.11
3	Unit 1	L3. Data, Error and Precision	A1.6, A1.8, A1.12, A1.13
4	Unit 1	L4. Research and Sources	A1.3, A1.7, A1.9, A2.1, A2.2
5	Unit 1	Lab skills practical (inquiry and lab report)	
6	Unit 2	L1. Cells Up Close	A1.2, B2.1, A1.4
7	Unit 2	L2. Plant and Animal Cells Lab	B2.3, A1.5
8	Unit 2	L3. The Cell Cycle	B3.1, B2.1
9	Unit 2	L4. Mitosis Lab	B2.2, A1.6
10	Unit 2	L5. When Cell Division Goes Wrong	B2.5, A1.8
11	Unit 2	L6. Specialized Cells and Stem Cells	B2.4, B3.2
12	Unit 2	L7. From Cells to Systems	B3.3
13	Unit 2	L8. Plant Tissues and Systems	B3.3, B2.1, A1.5
14	Unit 2	L9. The Digestive System	B3.4
15	Unit 2	L10. Circulation and Respiration	B3.4, B3.5, A1.6
16	Unit 2	L11. Systems Working Together	B3.5
17	Unit 2	L12. Dissection: Systems Inside an Organism	B2.6, A1.4
18	Unit 2	L13. Disease Detectives	B2.7, A1.7, A1.9
19	Unit 2	L14. Seeing Inside the Body	B1.2, A2.1, A2.2
20	Unit 2	L15. Public Health	B1.3
21	Unit 2	L16. Ethics in Systems Biology	B1.1, A1.11
22	Unit 2	Summative work period: Systems Biology Issue Report	
23	Unit 2	Unit test	
24	Unit 3	L1. Ions and the Periodic Table	C3.8, C2.1
25	Unit 3	L2. Naming Ionic Compounds	C3.1, C3.8
26	Unit 3	L3. Polyatomic Ions and Molecular Compounds	C3.8, C3.1
27	Unit 3	L4. Evidence of Chemical Change Lab	C2.5, C3.3, A1.4
28	Unit 3	L5. Word Equations and Molecular Models	C2.2, C3.4, C2.1
29	Unit 3	L6. Conservation of Mass Lab	C2.4, C3.2, A1.8
30	Unit 3	L7. Balancing Equations	C3.2, C3.4, A1.13
31	Unit 3	L8. Synthesis and Decomposition	C2.3, C3.5

© 2026 K9solutions

Day	Unit	Lesson or activity	Expectations
32	Unit 3	L9. Single Displacement	C2.3, C3.5, A1.5
33	Unit 3	L10. Double Displacement	C2.3, C3.5
34	Unit 3	L11. Acids, Bases and pH	C3.7, C2.6, C3.8
35	Unit 3	L12. Neutralization	C3.6, C2.6
36	Unit 3	L13. Reactions and Safety	C1.1, A1.7
37	Unit 3	L14. Chemistry for a Cleaner World	C1.2
38	Unit 3	L15. Careers and Summative Workshop	A2.1, A2.2, C1.1
39	Unit 3	Summative work period: antacid neutralization inquiry	
40	Unit 3	Unit test	
41	Unit 4	L1. Weather, Climate and the Climate System	D3.1, D2.1
42	Unit 4	L2. Heat Transfer in Air and Water	D3.2, D2.5
43	Unit 4	L3. Water, Ice and Albedo	D2.6, A1.5
44	Unit 4	L4. Ocean Currents	D2.7, D3.2
45	Unit 4	L5. Model the Greenhouse Effect	D2.2, D3.3, A1.1
46	Unit 4	L6. Greenhouse Gases: Sources and Sinks	D3.5, D3.6
47	Unit 4	L7. Ozone and Smog	D3.7
48	Unit 4	L8. Reading the Past: Ice Cores and Tree Rings	D2.3
49	Unit 4	L9. Testing a Climate Hypothesis	D2.4, A1.8, A1.12
50	Unit 4	L10. Natural and Human Causes	D3.4
51	Unit 4	L11. Indicators of Climate Change	D3.8
52	Unit 4	L12. Our Climate Region	D2.8
53	Unit 4	L13. Effects Around the World	D1.1
54	Unit 4	L14. Climate in the Media	D2.9, A1.9
55	Unit 4	L15. Climate Initiatives	D1.2, A2.1, A2.2
56	Unit 4	Summative work period: Climate Initiative Assessment	
57	Unit 4	Unit test	
58	Unit 5	L1. What Is Light?	E3.2, E2.1
59	Unit 5	L2. Making Light	E3.1
60	Unit 5	L3. Laws of Reflection Lab	E2.2, A1.4
61	Unit 5	L4. Images in Plane Mirrors	E2.3, E3.3
62	Unit 5	L5. Curved Mirrors	E2.2, E2.3
63	Unit 5	L6. Ray Diagrams for Curved Mirrors	E3.3
64	Unit 5	L7. The Mirror Equation	E3.3, A1.13

© 2026 K9solutions

Day	Unit	Lesson or activity	Expectations
65	Unit 5	L8. Refraction Lab	E2.4, E3.7
66	Unit 5	L9. Index of Refraction and the Speed of Light	E2.6, E3.7, A1.12
67	Unit 5	L10. Total Internal Reflection	E3.4
68	Unit 5	L11. Converging Lenses	E3.5, E2.5
69	Unit 5	L12. The Thin Lens Equation	E2.5, A1.13
70	Unit 5	L13. Optical Instruments	E3.6
71	Unit 5	L14. Eyes and Vision Technology	E1.1, A2.1
72	Unit 5	L15. Light Technology and Society	E1.2, A2.2
73	Unit 5	L16. Nature's Light Shows	E3.8
74	Unit 5	Summative work period: Optical Device Design Challenge	
75	Unit 5	Unit test	
76	Unit 6	L1. Choose an Investigation	A1.1, A1.3, A1.4
77	Unit 6	L2. Plan and Research	A1.2, A1.7, A1.9
78	Unit 6	L3. Run the Investigation	A1.5, A1.6
79	Unit 6	Culminating work period: investigation	
80	Unit 6	L4. Analyse and Conclude	A1.8, A1.10, A1.13
81	Unit 6	Culminating work period: analysis and presentation prep	
82	Unit 6	L5. Present Your Findings	A1.11, A1.12
83	Unit 6	Culminating presentations, continued	
84	Unit 6	L6. Course Review	B3, C3, D3, E3
85	Unit 6	Review and catch-up	
86	Unit 6	Final evaluation	
87	Flex	Catch-up, assemblies, labs that run long, or extra review	
88	Flex	Catch-up, assemblies, labs that run long, or extra review	

© 2026 K9solutions

Expectation Coverage

All 81 specific expectations, and the lessons that teach them. SNC2D, Grade 10 Science, Course Map

Code	Taught in
A1.1	U1 L2, U4 L5, U6 L1
A1.2	U1 L1, U2 L1, U6 L2
A1.3	U1 L4, U6 L1
A1.4	U1 L1, U2 L1, U2 L12, U3 L4, U5 L3, U6 L1
A1.5	U1 L2, U2 L2, U2 L8, U3 L9, U4 L3, U6 L3
A1.6	U1 L3, U2 L4, U2 L10, U6 L3
A1.7	U1 L4, U2 L13, U3 L13, U6 L2
A1.8	U1 L3, U2 L5, U3 L6, U4 L9, U6 L4
A1.9	U1 L4, U2 L13, U4 L14, U6 L2
A1.10	U1 L2, U6 L4
A1.11	U1 L2, U2 L16, U6 L5
A1.12	U1 L3, U4 L9, U5 L9, U6 L5
A1.13	U1 L3, U3 L7, U5 L7, U5 L12, U6 L4
A2.1	U1 L4, U2 L14, U3 L15, U4 L15, U5 L14
A2.2	U1 L4, U2 L14, U3 L15, U4 L15, U5 L15
B1.1	U2 L16
B1.2	U2 L14
B1.3	U2 L15
B2.1	U2 L1, U2 L3, U2 L8
B2.2	U2 L4
B2.3	U2 L2
B2.4	U2 L6
B2.5	U2 L5
B2.6	U2 L12
B2.7	U2 L13
B3.1	U2 L3
B3.2	U2 L6
B3.3	U2 L7, U2 L8
B3.4	U2 L9, U2 L10
B3.5	U2 L10, U2 L11
C1.1	U3 L13, U3 L15

© 2026 K9solutions

Code	Taught in
C1.2	U3 L14
C2.1	U3 L1, U3 L5
C2.2	U3 L5
C2.3	U3 L8, U3 L9, U3 L10
C2.4	U3 L6
C2.5	U3 L4
C2.6	U3 L11, U3 L12
C3.1	U3 L2, U3 L3
C3.2	U3 L6, U3 L7
C3.3	U3 L4
C3.4	U3 L5, U3 L7
C3.5	U3 L8, U3 L9, U3 L10
C3.6	U3 L12
C3.7	U3 L11
C3.8	U3 L1, U3 L2, U3 L3, U3 L11
D1.1	U4 L13
D1.2	U4 L15
D2.1	U4 L1
D2.2	U4 L5
D2.3	U4 L8
D2.4	U4 L9
D2.5	U4 L2
D2.6	U4 L3
D2.7	U4 L4
D2.8	U4 L12
D2.9	U4 L14
D3.1	U4 L1
D3.2	U4 L2, U4 L4
D3.3	U4 L5
D3.4	U4 L10
D3.5	U4 L6
D3.6	U4 L6
D3.7	U4 L7

© 2026 K9solutions

Code	Taught in
D3.8	U4 L11
E1.1	U5 L14
E1.2	U5 L15
E2.1	U5 L1
E2.2	U5 L3, U5 L5
E2.3	U5 L4, U5 L5
E2.4	U5 L8
E2.5	U5 L11, U5 L12
E2.6	U5 L9
E3.1	U5 L2
E3.2	U5 L1
E3.3	U5 L4, U5 L6, U5 L7
E3.4	U5 L10
E3.5	U5 L11
E3.6	U5 L13
E3.7	U5 L8, U5 L9
E3.8	U5 L16

From The Ontario Curriculum, Grades 9 and 10: Science, 2008 (revised), Science, Grade 10, Academic (SNC2D). A = Scientific Investigation Skills and Career Exploration; B = Biology; C = Chemistry; D = Earth and Space Science; E = Physics. Skill codes: IP = initiating and planning, PR = performing and recording, AI = analysing and interpreting, C = communicating.

© 2026 K9solutions