

Curriculum Correlation

Investigating Science and Technology 8 to Ontario Curriculum: Science and Technology, Grade 8 (2022)

Strand A: STEM Skills and Connections

Throughout Grade 8, in connection with a Systems strands, students will:	the learning in the Life	Systems, Matter and Energy, S	Structures and Mechanisms, and Earth and Space
Expectation	Degree of Fit	Chapter/Section References	Section/Page References
A1. STEM Investigation and Communica design process to conduct investigations.			ific experimentation process, and an engineering
A1.1 use a scientific research process and associated skills to conduct investigations	High	Section 3.3 Sections 6.0, 6.2 Sections 9.1, 9.2 Sections 10.3, 11.3, 12.2	Unit A 3.3 A47 Decision-Making Analysis, p. 77 Unit B 6.0 B35 Quick Lab, p. 157 6.2 Decision-Making Analysis, p. 171 Unit C 9.1 C32 Decision-Making Analysis, p. 248 9.2 C37 Decision-Making Analysis, p. 257 Unit D 10.3 D17 Inquiry Activity, p. 301 11.3 D33 Decision-Making Analysis, p. 331 12.2 D43 Decision-Making Analysis, p. 250 Unit Task, p. 361
A1.2 use a scientific experimentation process and associated skills to conduct investigations	High	Sections 1.3, 2.2, 2.3, 3.0, 3.2 Chapter 4 Sections 5.1, 5.2 Sections 7.0, 7.2 Chapter 8 Sections 9.0, 9.2	Unit A 1.3 A16 Inquiry Activity, p. 22 1.3 A17 Inquiry Activity, p. 29 2.3 A32 Quick Lab, p. 53 3.0 Amoeba Race, p. 61 2.2 A28 Design a Lab, p. 48 3.2 A42 Inquiry Activity, p. 70 Unit B

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		Sections 10.0, 10.1,	4.0 B3 Quick Lab, p. 97
		10.2, 11.2, 11.3	4.1 B7 Quick Lab, p. 103
		, ,	4.1 B8 Inquiry Activity, p. 104
			4.2 B 13 Quick Lab, p. 111
			4.3 Quick Lab, p. 120
			4.3 B20 Design a Lab, p. 121
			5.1 B27 Inquiry Activity, p. 141
			5.2 B32 Inquiry Activity, p. 149
			Unit C
			7.0 C3 Quick Lab, p. 191
			7.2 C10 Quick Lab, p. 200
			7.2 C11 Inquiry Activity, p. 201
			8.0 Quick Lab—Teacher Demonstration, p.
			209
			8.1 C17 Design a Lab, p. 214,
			8.2 C21 Inquiry Activity, p. 222
			8.3 C25 Inquiry Activity, p. 230
			9.0 C28 Quick Lab, p. 239
			9.2 Inquiry Activity, p. 258
			Unit C Task, p. 265
			Unit D
			10.0 D3 Quick Lab, p. 279
			10.1 D8 Inquiry Activity, p. 288
			10.2 D14 Inquiry Activity, p. 296
			11.2 D27 Inquiry Activity, p. 322
			11.3 D32 Quick Lab, p. 330
			12.3 D46 Inquiry Activity, p. 355
A1.3 use an engineering design process	High	Sections 1.2, 3.1	Unit A
and associated skills to design, build, and		Section 5.1	1.2 A10 Quick Lab, p. 21
test devices, models, structures, and/or		Sections 8.2, 9.1	3.1 Problem-Solving Activity, p. 65
systems		Section 11.1	Unit B
			Exploring: B1 Quick Lab, p. 92

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			5.1 B28 Problem-Solving Activity, p. 142 Unit C 8.2 C22 Problem-Solving Activity, p. 224 9.1 C33 Problem-Solving Activity, p. 249 Unit C Task, p. 265 Unit D 11.1 D23 Problem-Solving Activity, p. 315
A1.4 follow established health and safety procedures during science and technology investigations, including wearing appropriate protective equipment and clothing and safely using tools, instruments, and materials	High	Throughout	Unit A 1.1 A6 Quick Lab, p. 15 1.2 A11 Quick Lab, p. 21 1.3 A16 Inquiry Activity, p. 22 1.3 A17 Inquiry Activity, p. 29 2.1 A23 Inquiry Activity, p. 41 2.2 A27 Inquiry Activity, p. 47 2.2 A28 Design a Lab, p. 48 2.3 A32 Quick Lab, p. 53 3.2 A42 Inquiry Activity, p. 70 Unit B All Quick Labs and Inquiry Activities Unit C Quick Labs, Inquiry Activities, Design a Labs, and Problem-Solving Activities, and Unit C Task Unit D All Quick Labs and Inquiry Activities Unit Test: 6
A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes	High	Throughout	Throughout the unit Examples: Unit A A47 Decision-Making Analysis, p. 77 Check and Reflect, p. 66: 8

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Unit B 4.1 B7 Quick Lab, p. 103 4.1 B8 Inquiry Activity, p. 104 4.3 B19 Quick Lab, p. 120	
4.1 B8 Inquiry Activity, p. 104	
4.3 B19 Quick Lab, p. 120	
4.3 B20 Design a Lab, p. 121	
5.1 B27 Inquiry Lab, p. 141	
5.1 B28 Problem-Solving Activity, p. 142	
5.2 B32 Inquiry Activity, p. 149	
5.1 Check and Reflect, p. 143: 4, 7	
Unit B Review, p. 178: 3, 24, 32	
Unit C	
C10 Quick Lab, p. 200	
C14 Quick Lab, p. 209	
C17 Design a Lab, p. 214	
C21 Inquiry Activity, p. 222	
C22 Problem-Solving Activity, p. 224	
C25 Inquiry Activity, p. 230	
C28 Quick Lab, p. 239	
C32 Decision-Making Analysis, p. 248	
C33 Problem-Solving Activity, p. 249	
C38 Inquiry Activity, p. 258	
Unit C Task, p. 265	
Unit D	
11.1 Check and Reflect, p. 316: 6	
Chapter 11.0 Review, p. 334: 9	
Unit Review, p. 362: 21, 24	
Chapter 11.0 Quiz: 22	
Unit Test: 21	

A2. Coding and Emerging Technologies: use coding in investigations and to model concepts, and assess the impact of coding and of emerging technologies on everyday life and in STEM-related fields

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A2.1 write and execute code in	Absent		
investigations and when modelling			
concepts, with a focus on planning and			
designing programs			
A2.2 identify and describe impacts of	Absent		
coding and of emerging technologies,			
such as artificial intelligence systems, on			
everyday life, including skilled trades			
A3. Applications, Connections, and Contr	ibutions: demonstrate an	understanding of the pract	ical applications of science and technology, and
of contributions to science and technology	y from people with diverse	e lived experiences	
A3.1 describe practical applications of	Moderate	Science and Technology	Unit A
science and technology concepts in		in Your World feature	S&T in Your World, p. 55
various occupations, including skilled	*Skilled trades are not		Unit B
trades, and how these applications	mentioned.		S&T in Your World, p. 151
address real-world problems			Unit C
·			S&T in Your World, p. 233
			Unit D
			S&T in Your World, p. 333
A3.2 investigate how science and	High	Section 3.3	Unit A
technology can be used with other		Section 9.2	3.3 A46 Decision-Making Analysis, p. 76
subject areas to address real-world		Sections 11.1, 11.3	3.3 A48 Decision Making Analysis, p. 77
problems			Unit B
Freezen			S&T in Your World, p. 123
			Unit C
			9.2 C38 Inquiry Activity, p. 258
			Unit D
			11.3 D33 Inquiry Activity, p. 331
			11.1 D23 Inquiry Activity, p. 315
A3.3 analyse contributions to science	Absent		
and technology from various			
communities			
COMMITMENT			

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Strand B: Life Systems—Cells

Expectation	Degree of Fit		Section/Page References
	Our Changing World:	assess developments in cell bio	ology and their impact on individuals, society, and
the environment			
B1.1 assess how various technologies	High	Sections 1.1, 1.2, 3.3	1.1 A7 Thinking about ST&S, p. 16
have enhanced our understanding of			3.3 Check and Reflect, p. 78: 7–9
cells and cellular processes (1.1)			S&T in Your World, p. 31
			Chapter 1.0 Quiz: 24
			Chapter 2.0 Quiz: 24
			Chapter 3.0 Review, p. 80: 13
			Chapter 3.0 Quiz: 22
			Unit A Review, p. 87: 36
			Unit A Test: 23
B1.2 analyse beneficial and harmful	High	Section 3.3	3.3 Check and Reflect, p. 78: 4–6, 8, 9
effects of developments in cell biology			Chapter 1.0 Review, p. 33: 8
and associated emerging technologies			Chapter 2.0 Quiz: 24
on human health and the environment,			Chapter 3.0 Review, p. 80–81: 8, 10, 11,13, 14
while taking different perspectives into			Chapter 3.0 Quiz: 24
consideration (1.2)			Unit A Review, p. 86–87: 31, 33, 40
			Unit A Test: 30
			A46 Decision-Making Analysis, p. 76
			A47 Decision-Making Analysis, p. 77
	ots: demonstrate an u	inderstanding of the basic struc	cture and function of plant and animal cells and
cell processes			
B2.1 demonstrate an understanding of	High	Sections 1.0, 1.1, 2.3	1.1, 2.3 Check and Reflect, p. 16: 1; p. 54: 5
cells, using cell theory (3.1)			Chapter 1.0 Quiz: 7, 22
			Chapter 2.0 Quiz: 23
			Unit A Review, p. 84–87: 4, 5, 38, 39
			Unit A Test: 1
B2.2 identify organelles and other cell	High	Section 1.2	1.2 Check and Reflect, p. 23: 1, 2, 5, 6
components, including the nucleus, cell			Chapter 1.0 Review, p. 32: 2, 5

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membrane, cell wall, chloroplasts, vacuole, mitochondria, and cytoplasm, and explain their basic functions (3.2)			Chapter 1.0 Quiz: 10, 11, 12 Unit A Review, p. 84–85: 6, 7, 20, 22 Unit A Test: 11–16, 22
B2.3 compare the structure and function of plant and animal cells (3.3)	High	Section 1.2	1.2 Check and Reflect, p. 23: 1, 2, 5, 6 Chapter 1.0 Review, p. 32: 5 Chapter 1.0 Quiz: 23 Unit A Review, p. 84: 3, 7 Unit A Test: 26
B2.4 explain the processes of diffusion and osmosis within a cell (3.4)	High	Section 1.3	1.3, 2.2 Check and Reflect, p. 30: 1, 3, 4; p. 49: 3 Chapter 1.0 Review, p. 32–33: 3, 6, 7, 9 Chapter 1.0 Quiz: 13, 14, 20, 21 Chapter 2.0 Review: 2, 3 Chapter 2.0 Quiz: 24 Unit A Review, p. 84–87: 8, 13, 29, 34, 35, 37 Unit A Test: 5, 24, 25 1.3 A16 Inquiry Activity, p. 28 1.3 A17 Inquiry Activity, p. 29
B2.5 describe various unicellular and multicellular organisms, and compare ways in which these two types of organisms meet their basic needs (3.5)	High	Chapter 2	2.1, 2.2 Check and Reflect, p. 42: 1–5; p. 49: 1–4, 6 Chapter 2.0 Review, p. 56: 5, 7 Chapter 2.0 Quiz: 1, 2, 7, 8, 10, 12, 22 Unit A Review, p. 85: 14, 16–18, 22 Unit A Test: 8, 21 A23 Inquiry Activity, p. 41
B2.6 describe the organization of cells into tissues, organs, and systems (3.6)	High	Sections 3.1, 3.2	3.1, 3.2 Check and Reflect, p. 66: 1–8; p. 71: 1, 2, 4–7 Chapter 3.0 Review, p. 80: 4, 6 Chapter 3.0 Quiz: 1, 2, 4, 6–21 Unit A Review, p. 86–87: 25–28, 38 Unit A Test: 3, 9, 10

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Strand C: Matter and Energy—Fluids

By the end of Grade 8, students will:			
Expectation	Degree of Fit		Section/Page References
			logies that rely on the properties of fluids, and
assess the impact of these technologies of	on society and the environm	nent	
C1.1 assess the environmental, social, and economic impacts of various innovations and technologies that are based on the properties of fluids (1.1)	High	Section 9.2	9.2 Check and Reflect, p. 260: 4–6 9.2 C37 Decision-Making Analysis, p. 257 Chapter 9.0 Review, p. 262: 6, 9–11, 13 Chapter 9.0 Quiz: 23 Unit C Review, p. 266: 16, 21, 25, 27, 33, 39 Unit C Test: 30
C1.2 assess the environmental and social impacts of fluid spills, including impacts on First Nations, Métis, and Inuit communities, and including the cost and technical challenges related to cleanup and remediation efforts (1.2, new focus) C2. Exploring and Understanding Conceptions	*Does not include examples of spills on Indigenous land or other Indigenous-related info ots: demonstrate an unders	Section 9.2 tanding of basic fluid me	9.2 Check and Reflect, p. 260: 4–6 Chapter 9.0 Review: 9–11, 13 Chapter 9.0 Quiz: 13, 23 Unit C Review: 14–16, 21, 25, 27 Unit C Test: 29 9.2 C37 Decision-Making Analysis, p. 257 chanics, including the properties and uses of
C2.1 demonstrate an understanding of the factors that affect viscosity, and compare the viscosity of various fluids, including volumetric flow rate (3.1, flow rate new)	High	Sections 8.1	8.1 Check and Reflect, p. 215: 1, 4–7 Chapter 8.0 Review, p. 234: 1, 2 Chapter 8.0 Quiz: 5, 7, 8 Unit C Review, p. 266: 6, 40 Unit C Test: 3, 19
C2.2 demonstrate an understanding of the relationship between mass, volume, and density (3.2)	High	Section 7.2, 8.2	8.2 Check and Reflect, p. 226: 4, 5, 7, 8 Chapter 8.0 Review, p. 234: 3, 4, 11, 14 Chapter 8.0 Quiz: 11, 12 Unit C Review, p. 266: 35, 36, 41 Unit C Test: 24, 25

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			8.2 C21 Inquiry Activity, p. 223
C2.3 explain the difference between solids, liquids, and gases in terms of their density, using the particle theory of matter (3.3)	High	Sections 7.2, 8.1, 8.2	7.2, 8.1, 8.3 Check and Reflect, p. 202: 2, p. 215: 2, 3, 6, p. 226: 1, 2 Chapter 7.0 Review, p. 204: 11, 12 Chapter 7.0 Quiz: 14 Chapter 8.0 Review, p. 234: 5 Chapter 8.0 Quiz: 22 Unit C Review, p. 266: 4 Unit C Test: 5, 22
C2.4 explain the difference between liquids and gases in terms of their compressibility and how their compressibility affects their technological applications (3.4)	High	Sections 8.3, 9.1	8.3, 9.1 Check and Reflect, p. 232: 3; p. 250: 2, 3, 9 Chapter 8.0 Review, p. 234: 7, 8 Chapter 9.0 Review, p 262: 2, 6 Chapter 9.0 Quiz: 22 Unit C Review, p. 266: 8, 37, 40 Unit C Test: 22 8.3 C25 Inquiry Activity, p. 231
C2.5 determine the buoyancy of an object, given its density, in a variety of fluids (3.5)	*Does not include information on determining buoyancy. Provides one question in the Student Book	Section 8.2	Chapter 8.0 Review: 11 Chapter 8.0 Quiz: 10 Unit C Review: 10, 23, 28 Unit C Test: 25
C2.6 explain in qualitative terms the relationship between pressure, volume, and temperature when a liquid or a gas is compressed or heated (3.6)	High	Section 8.3	7.2, 8.3 Check and Reflect, p. 202: 6; p. 232: 6 Chapter 7.0 Review, p. 204: 4, 8 Chapter 7.0 Quiz: 13 Chapter 8.0 Quiz: 9 Unit C Review p. 266: 17, 18

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			Unit C Test: 26, 28
C2.7 describe how forces are	High	Section 9.1	9.1 Check and Reflect, p. 250: 1, 4, 7, 10
transferred in all directions in fluids,			Chapter 9.0 Review, p. 262: 1
including using Pascal's law to quantify			Chapter 9.0 Quiz: 6
the transfer of forces in fluids (3.7)			Unit C Review, p. 266: 1
			Unit C Test: 9, 10
C2.8 describe factors that affect the	High	Section 8.1	8.1 Check and Reflect, p. 215: 1–4, 6
flow of fluids			Chapter 8.0 Review, p. 234: 1, 2
C2.9 describe the differences between	High	Section 9.1	9.1 Check and Reflect, p. 250: 2
pneumatic and hydraulic systems			9.0 Chapter Review, p. 262: 2, 4–6
			Unit C Review, p. 266: 12,
C2.10 compare how fluids are used and	Moderate	Sections 7.1, 9.1	Chapter 9.0 Review, p. 262: 15
how their flow is regulated in living			Chapter 9.0 Quiz: 9
organisms and in mechanical devices or			Unit C Review, p. 266: 41
systems <i>(3.8)</i>			Unit C Test: 23

Strand D: Structures and Mechanisms—Systems in Action

By the end of Grade 8, students will:			
Expectation	Degree of Fit		Section/Page References
D1. Relating Science and Technology to Our Changing World: assess the social and environmental impacts of various systems, and evaluate			
improvements to the systems or alternati	ve ways of meeting the sai	me needs	
D1.1 assess the social, economic, and	High	Section 6.2	6.2 Check and Reflect, p. 172: 3, 6–10
environmental impacts of automating			6.2 B43 Decision-Making Analysis, p. 171
systems (1.1)			Chapter 6.0 Review, p. 175: 10
			Chapter 6.0 Quiz: 12, 24
D1.2 assess the impact on individuals,	High	Section 6.2	6.2 Check and Reflect, p. 172: 8, 9
society, and the environment of			Chapter 6.0 Review, p. 175: 10
alternative ways of meeting needs that			Chapter 6.0 Quiz: 22, 24
are currently met by existing systems,			Unit B Review, p. 180: 34, 39
taking different points of view into			
consideration (1.2)			

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D2.1 identify various types of systems (3.1)	High	Sections 4.0, 6.0, 6.1	6.1 Check and Reflect, p. 163: 1 Chapter 6.0 Review, p. 174: 4, 7 Chapter 6.0 Quiz: 1, 3, 6, 16 Unit B Review, p. 178: 2, 35 Unit B Test: 1
D2.2 describe the purpose, inputs, and outputs of various systems, including systems related to food processing (3.2, but food systems is new)	*Does not include information on food systems	Section 4.3	4.3 Check and Reflect, p. 122: 1, 3, 4, Chapter 4.0 Review, p. 124: 11, 17 Unit B Review, p. 178: 11 Unit B Test: 25, 26
D2.3 identify the various processes and components of a system that allow it to perform its function efficiently and safely (3.3)	High	Section 5.1, 5.2	5.1 Check and Reflect, p. 143: 1, 2, 4, 7 Chapter 5.0 Review, p. 153: 11 6.1 Check and Reflect, p. 163: 2, 3, 9 Chapter 6.0 Review, p. 174: 1, 3, 7 Chapter 6.0 Quiz: 7, 8, 10 Unit B Review, p. 179: 26 Unit B Test: 16, 27
D2.4 use the scientific terms displacement, force, work, energy, and efficiency to describe everyday experiences (3.4, but focus is a bit different)	*Does not include information on "displacement"	Sections 4.1, 4.2, 5.2	4.1 Check and Reflect, p. 105: 1–6 4.2 Check and Reflect, p. 112: 1–5 Chapter 4.0 Review, p. 124: 1, 3, 4, 9 Chapter 4.0 Quiz: 2, 4, 7, 9, 12, 17–20 5.2 Check and Reflect, p. 150: 1, 3, 4 Chapter 5.0 Quiz: 4 Unit B Review, p. 178: 1, 3, 6 Unit B Test: 2, 4, 5, 12, 15
D2.5 demonstrate an understanding of the relationships between work, force, and displacement in simple systems (3.5)	*Does not mention "displacement" (a vector quantity), only	Section 4.2	4.2 Check and Reflect, p. 112: 6–9 Chapter 4.0 Review, p. 125: 14, 25(a), 29, 32(b), 32(c) Chapter 4.0 Quiz: 13, 22

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D2.6 explain the relationship between input and output forces and determine the mechanical advantage of various mechanical systems, including simple machines (3.6; input and output is new)	uses "distance" a scalar quantity) High	Sections 4.3, 5.1	4.3 Check and Reflect, p. 122: 2–4, 6–8 Chapter 4.0 Review, p. 125: 15 Unit B Review, p. 179: 30, 32(a) Unit B Test: 14, 21, 24
D2.7 identify ways in which energy can dissipate from mechanical systems, and describe technological innovations that make these systems more efficient (3.7)	High	Sections 4.3, 5.2	4.3 Check and Reflect, p. 122: 5 Chapter 4.0 Review, p. 124: 6, 10 Chapter 4.0 Quiz: 12 5.2 Check and Reflect, p. 150: 2, 4 Unit B Review, p. 178: 13, 14, 23, 24 Unit B Test: 17, 19
D2.8 explain how providing information and support to consumers helps to ensure that the systems they use run safely and efficiently	Low	Section 6.1	6.1 B38 Quick Lab, p. 161
D2.9 describe technological innovations involving mechanical systems that have increased productivity in various industries (3.8)	High	Section 6.2	6.2 Check and Reflect, p. 172: 2 Chapter 6.0 Review, p. 174: 4 Chapter 6.0 Quiz: 3, 11 Unit B Review, p. 178: 17 Unit B Test: 28, 30
D2.10 identify social factors that influence the evolution of a system (3.9)	High	Section 6.1	6.1 Check and Reflect, p. 163: 4, 8, 9 Chapter 6.0 Review, p. 174: 8 Chapter 6.0 Quiz: 9, 12, 24 Unit B Review, p. 180: 36

Strand E: Earth and Space Systems—Water Systems

By the end of Grade 8, students will:				
Expectation	Degree of Fit	Section/Page References		

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water resources	Madausta	Castiana 11 2 12 1	12.1 Charle and Deflect in 244.2
E1.1 assess the social and environmental	Moderate	Sections 11.3, 12.1	12.1 Check and Reflect, p. 344: 2
impact of the scarcity of fresh water, and propose a plan of action to help	*Does not address water		12.1 D39 Inquiry Activity, p. 344
and propose a plan of action to help address fresh water sustainability issues	scarcity		Chapter 12.0 Review, p. 358: 1, 2, 5, 6 Unit Task, p. 361
(1.1, new focus)	scarcity		Unit Review, p. 362: 18, 19
(1.1, New Jocus)			Chapter 12.0 Quiz: 1, 4, 5, 6–10,
			17–21, 23
			Unit Test: 2–4, 7, 20, 24
E1.2 demonstrate an understanding of	Absent		1,1,10,1
First Nations, Métis, and Inuit			
knowledges and values about water,			
connections to water, and ways of			
managing water resources sustainably			
E1.3 assess the impact of scientific	High	Section 12.3	12.3 Check and Reflect, p. 356: 2, 4–6
discoveries and technological			Chapter 12.0 Review, p. 358: 4, 7, 8
innovations on local and global water			Unit Review, p. 362: 13, 18
systems <i>(1.3)</i>			Chapter 12.0 Quiz: 3, 13–15, 24
			Unit Test: 27, 29
	ts: demonstrate an understa	nding of the characteris	tics of Earth's water systems and of factors that
affect these systems		6 1: 40.4	40.4.61 10.61 200.4.2.4
E2.1 identify the states of water on	High	Section 10.1	10.1 Check and Reflect, p. 289: 1, 2, 4
Earth's surface, their distribution,			Chapter 10.0 Review, p. 304: 1–4
relative amounts, and circulation, and			Unit Review, p. 362: 1, 3
the conditions under which they exist			Chapter 10.0 Quiz: 2–5, 12, 14, 16, 17, 19
(2.4)			Unit Test: 9, 15
(3.1)	Lizh	Continue 10.1	10.1 Charles and Deflect in 200, 2 5 7
E2.2 demonstrate an understanding of a	High	Section 10.1	10.1 Check and Reflect, p. 289: 3, 5–7
E2.2 demonstrate an understanding of a watershed, and explain its importance	High	Section 10.1	Chapter 10.0 Review, p. 304: 5, 6
E2.2 demonstrate an understanding of a	High	Section 10.1	• • • • • • • • • • • • • • • • • • • •

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E2.3 explain how human activity and natural phenomena cause changes in the water table (3.3)	High	Section 11.1	11.1 Check and Reflect, p. 316: 1–5 Chapter 11.0 Review, p. 334: 5, 7 Unit Review, p. 362: 6, 7 Chapter 11.0 Quiz: 7–9, 13, 20 Unit Test: 13, 22, 23
E2.4 identify factors, including climate change, that have contributed to the melting of glaciers and polar ice-caps, and describe the effects of this phenomenon on local and global water systems (3.4)	*Does not mention climate change	Section 10.3	10.3 Check and Reflect, p. 302: 1–5 Chapter 10.0 Review, p. 304: 7 Unit Review, p. 362: 1, 5 Chapter 10.0 Quiz: 1, 15, 23
E2.5 explain changes in atmospheric conditions caused by the presence of bodies of water (3.5)	High	Section 10.2	10.2 Check and Reflect, p. 297: 1–4 Unit Review, p. 362: 5, 14, 22 Chapter 10.0 Quiz: 9–11, 20, 22 Unit Test: 10
E2.6 describe various indicators of water quality, and explain the impact of human activity on those indicators	Moderate	Sections 10.2, 11.2	10.2 Check and Reflect, p. 297: 1–4 Unit Review, p. 362: 5, 14, 22 Chapter 10.0 Quiz: 9–11, 20, 22 Unit Test: 10
E2.7 explain how municipalities process water and manage water usage	High	Sections 11.2, 11.3, 12.1	11.2, 11.3 Check and Reflect, p. 323: 2–5; p. 332: 1–5 Chapter 11.0 Quiz: 6, 22, 14, 15, 24 Unit Test: 14, 18, 26

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