

## Cross-Reference Guide: Grade 6 Alberta Science with Project WILD and Below Zero

J. van Kessel, M.Sc., B.Ed.

<b>Topic E: Trees and Forests</b>		<b>Project Wild</b>	<b>Below Zero</b>
<b>General Learner Expectations</b>	<b>Specific Learner Expectations</b>		
<b>6–10 Describe characteristics of trees and the interaction of trees with other living things in the local environment.</b>	1. Identify reasons why trees and forests are valued. Students meeting this expectation should be aware that forests serve as habitat for a variety of living things and are important to human needs for recreation, for raw materials and for a life-supporting environment.	26 Everybody Needs a Home (m) 28 Habitat Lap Sit (m) 32 Habitacks (m) 38 Habitat Rummy (m) 44 My Kingdom for a Shelter 57 Water Wings (m,eval4) 64 Are You Me? (e1) 82 Wild Words...A Journal-Making Activity (m) 85 Animal Poetry (m) 98 Environmental Barometer (e) 105 Riparian Retreat <b>127 Urban Nature Search (g)</b> 156 How Many Bears Can Live in This Forest? (m, e) 161 Visual Vocabulary (m) 177 The Edge of Home (m) 180 Blue Ribbon Niche 224 Smokey the Bear Said What? (m) 312 To Dam or Not to Dam (m) 330 Playing Lightly on the Earth (e) 348 Improving Wildlife Habitat in the Community (m) 354 Dragonfly Pond (m)	33 Winter Survival (m) 37 Design a Shelter (e3) 41 Snow Place Like Home (var2) 49 Snowsense (e3) 89 Ready, Set, Snow! 125 Cosy in the Cold (m) 137 Snowmobile Savvy 155 Mighty Migrators (m) 159 Dinner Time
	2. Describe kinds of plants and animals found living on, under and among trees; and identify how trees affect and are affected by those living things.	18 Wildlife is Everywhere! (m) 20 Microtrek Scavenger Hunt (m) 26 Everybody Needs a Home (m) 32 Habitacks (m) 38 Habitat Rummy (m) 44 My Kingdom for a Shelter	5 Snow Tours 15 Bird Banquets (m) 33 Winter Survival (m) 37 Design a Shelter (e3) 41 Snow Place Like Home (var2) 49 Snowsense (e3)

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		64 Are You Me? (e1) 82 Wild Words...A Journal-Making Activity (m) 85 Animal Poetry (m) 95 Seed Need (m) 105 Riparian Retreat (e1) 125 Graphanimal (var2) 127 Urban Nature Search 133 Forest in a Jar (m7) 135 Pond Succession 156 How Many Bears Can Live in This Forest? (m, e) 161 Visual Vocabulary (m) 177 The Edge of Home 180 Blue Ribbon Niche (m) 188 Rainfall and the Forest (e) 280 Learning to Look, Looking to See (m) 348 Improving Wildlife Habitat in the Community 354 Dragonfly Pond (e5) 376 Watershed (m, e8)	77 Moose Morsels (m) 83 Winter-Wise Insects 89 Ready, Set, Snow! (e2) 97 Snow Lovers or Haters? (m) 125 Cosy in the Cold (m) 137 Snowmobile Savvy (m) 155 Mighty Migrators (m) 159 Dinner Time
	3. Describe the role of trees in nutrient cycles and in the production of oxygen.	57 Water Wings (m)	
	4. Identify general characteristics that distinguish trees from other plants, and characteristics that distinguish deciduous from	133 Forest in a Jar (m7) 135 Pond Succession (m)	27 Twiggy Tales 89 Ready, Set, Snow! (m) 93 A Furry Plant? (m)

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	coniferous trees.		
	5. Identify characteristics of at least four trees found in the local environment. Students should be familiar with at least two deciduous trees and two coniferous trees. Examples should include native species, such as spruce, birch, poplar, and pine and cultivated species, such as elm and crab apple.	82 Wild Words...A Journal-Making Activity (m) 95 Seed Need (m) 127 Urban Nature Search (m) 177 The Edge of Home 280 Learning to Look, Looking to See (m)	5 Snow Tours (m) 27 Twiggy Tales 89 Ready, Set, Snow! (e2) 93 A Furry Plant? (m) 97 Snow Lovers or Haters? (m)
	6. Describe and classify leaf shapes, leaf arrangements, branching patterns and the overall form of a tree.	127 Urban Nature Search (m)	27 Twiggy Tales (m)
	7. Interpret the growth pattern of a young tree, distinguishing this year's growth from that of the previous year and from the year before that. Students meeting this expectation should recognize differences in colouration and texture of new growth and old growth, and locate scars that separate old and new growth.	133 Forest in a Jar (m7) 280 Learning to Look, Looking to See (m)	
	8. Identify human uses of forests, and compare modern and historical patterns of use.	26 Everybody Needs a Home (m) 127 Urban Nature Search (m, e) 161 Visual Vocabulary (m) 180 Blue Ribbon Niche (m)	137 Snowmobile Savvy (m)

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<b>General Learner Expectations</b>	<b>Specific Learner Expectations</b>		
		224 Smokey the Bear Said What? (m) 257 Changing Attitudes (m, e1, 3) 262 Watered Down History (m) 312 To Dam or Not to Dam (m, e2,3) 330 Playing Lightly on the Earth (e) 335 What Did Your Lunch Cost Wildlife? (m) 337 Flip the Switch for Wildlife! (m) 348 Improving Wildlife Habitat in the Community 351 Enviro-Ethics (m)	
	9. Identify human actions that enhance or threaten the existence of forests.	48 Litter We Know (m) 127 Urban Nature Search (m, e) 180 Blue Ribbon Niche (m9) 216 Here Today, Gone Tomorrow (m) 220 Who Lives Here? (m, e) 224 Smokey the Bear Said What? 272 The Power of a Song (m, e) 289 Shrinking Habitat (m) 293 Migration Barriers (e1) 306 Planning for People and Wildlife (m) 312 To Dam or Not to Dam 319 Deadly Skies 328 Ethi-Thinking 330 Playing Lightly on the Earth (e) 335 What Did Your Lunch Cost Wildlife? (m) 337 Flip the Switch for Wildlife! (m) 345 Can Do! (m)	137 Snowmobile Savvy (m) 141 Shocking Snow (e) 145 The Acid Test 155 Mighty Migrators (m)

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		348 Improving Wildlife Habitat in the Community (m) 351 Enviro-Ethics (m) 354 Dragonfly Pond (m) 360 Living Research: Aquatic Heroes and Heroines (m) 376 Watershed (m, e3)	
	10. Identify an issue regarding forest use, identify different perspectives on that issue, and identify actions that might be taken.	180 Blue Ribbon Niche (m, eval4) 224 Smokey the Bear Said What? (m) 257 Changing Attitudes (e2) 268 Cartoons and Bumper Stickers (m) 272 The Power of a Song (m, e) 289 Shrinking Habitat (m) 293 Migration Barriers (e1) 295 To Compromise or Not to Compromise (m) 306 Planning for People and Wildlife (m) 312 To Dam or Not to Dam (e2,3) 319 Deadly Skies (m, e) 328 Ethi-Thinking (m) 330 Playing Lightly on the Earth (e) 335 What Did Your Lunch Cost Wildlife? (m) 337 Flip the Switch for Wildlife! (m) 340 Ethi-Thinking (m) 345 Can Do! 348 Improving Wildlife Habitat in the Community	137 Snowmobile Savvy 155 Mighty Migrators (m)

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		351 Enviro-Ethics (m) 354 Dragonfly Pond (e3)	

**Notes** (all tables)

**bold:** very strong correlation of activity with outcome/indicator  
 m: minor modification required for SLE  
 number; e.g., 2: relevant step in activity procedure  
 e: include activity extension  
 aq: aquatic extension  
 eval: evaluation section of activity  
 var: variation section of activity