

**Cross-Reference Guide: Grade 1 Alberta Science with Project WILD and Below Zero \***  
**J. Latshaw, Ph. D. University of Saskatchewan**

<b>Topic B: Seasonal Changes</b>		<b>Project Wild*</b>	<b>Below Zero*</b>	
<b>General Learner Expectations</b>	<b>Specific Learner Expectations</b>			
<b>1–6 Describe seasonal changes, and interpret the effects of seasonal changes on living things.</b>	1. Describe the regular and predictable cycle of seasonal changes: <ul style="list-style-type: none"> <li>• changes in sunlight</li> <li>• changes in weather.</li> </ul>	22 Stormy Weather 72 Puddle Wonders!	7 Flaky Formation 13 Icicle Magic 21 Make Your Own Iceberg 49 Snowsense	129 Branching Out (K-2)  157 Imagine  186 Rainy-Day Hike (KO)
	2. Identify and describe examples of plant and animal changes that occur on a seasonal basis: <ul style="list-style-type: none"> <li>• changes in form and appearance</li> <li>• changes in location of living things</li> <li>• changes in activity; e.g., students should recognize that many living things go into a dormant period during winter and survive under a blanket of snow as a seed, egg or hibernating animal</li> <li>• production of young on a seasonal basis.</li> </ul>	125 Graphanimal (m) 168 Wetland Metaphors 280 Learning to Look, Looking to See (m)	3 Winter Signals 17 Cold Busters 27 Twiggy Tales 29 Hare Ways 53 Snug Under the Snow 89 Ready, Set, Snow 93 A Furry Plant 107 Winter Buddies 109 Frost-free Friends 113 Dress Like a Polar Bear 117 Adaptarmigan 127 Neat Feet	79 Life in the Fast Lane  155 A House of Seasons  457 Winter Write (m)

\* See end notes for abbreviations

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	3. Identify human preparations for seasonal change and identify activities that are done on a seasonal basis.	101 Make a Coat	89 Ready, Set, Snow	
	4. Record observable seasonal changes over a period of time.	168 Wetland Metaphors!	3 Winter Signals	
<b>Topic E: Needs of Animals and Plants</b>		<b>Project Wild*</b>	<b>Below Zero*</b>	<b>Project WET</b>
<b>General Learner Expectations</b>	<b>Specific Learner Expectations</b>			
<b>1–11 Describe some common living things, and identify needs of those living things.</b>	1. Observe, describe and compare living things.	2 What's Wild? 11 Colour Crazy 18 Wildlife is Everywhere 72 Puddle Wonders 95 Seed Needs 122 What Bears Goes Where? 133 Forest in a Jar 142 Seeing is Believing or the Eyes Have It 165 Micro Odyssey (m) 254 And the Wolf Wore Shoes 255 First Impressions	15 Bird Banquets 27 Twiggy Tales 83 Winter-Wise Insects 89 Ready, Set, Snow 109 Frost-free Feathered Friends 113 Dress Like a Polar Bear 117 Adaptarmigan 121 Wise Wintering Plants 123 The Benefit of Big 127 Neat Feet 129 What Gall!	63 Aqua Bodies  66 Aqua Notes  76 The Life Box  191 Stream Sense  196 The Thunderst

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				orm
	2. Contrast living and nonliving things.			191 Stream Sense 196 The Thunderstorm 442 The Rainstick 450 WaTer in Motgion
	3. Identify ways in which living things are valued; e.g., as part of a community of living things; as sources of food, clothing or shelter.	144 Surprise Terrarium 168 Wetland Metaphor 197 Fashion a Fish 276 Water We Eating?		
	4. Classify some common local plants and animals	87 Museum Search	15 Bird Banquets	

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	into groups on the basis of visible characteristics; e.g., adaptations for survival, such as claws, beaks, prickles.	for Wildlife (m)  139 Adaptation Artistry (m)	29 Hare Ways	
	5. Identify examples of plants and animals that are normally under human care (domesticated) and those that are normally independent of human care (wild).	62 Water Plant Art  156 How Many Bears Can Live in this Forest? (m-Picture Cards)  286 Too Close for Comfort		
	6. Identify the requirements of animals to maintain life; i.e., air, food, water, shelter, space; and recognize that we must provide these for animals in our care.	25 The Beautiful Basics 26 Everybody Needs a Home 36 What's That Habitat? 55 Aqua Words 72 Puddle Wonders 150 Classroom Carrying Capacity 289 Shrinking Habitat	3 Winter Signals 15 Bird Banquets 29 Hare Ways 37 Design a Shelter 41 Snow Place Like Home 77 Moose Morsels 81 Snow Way to Hide	63 Aqua Bodies  66 Aqua Notes  76 The Life Box  1.

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			89 Ready, Set, Snow (i) 107 Winter Buddies (i) 109 Frost-Free Feathered Friends 147 Kindness that Kills 159 Dinner Time	
	7. Identify the requirements of plants to maintain life; i.e., air, light, suitable temperature, water, growing medium, space; and recognize that we must provide these for plants in our care.	55 Aqua Words 121 Wise Wintering Plants 133 Forest in a Jar		122 Water Address (K-2)
	8. Identify ways that land plants depend on soil.	133 Forest in a Jar		
	9. Recognize that some plants and animals must adapt to extreme conditions to meet their basic needs; e.g., arctic and desert plants and animals.		17 Cold Busters 23 Follow the Leader (m) 109 Frost-Free Feathered Friends	

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			113 Dress Like a Polar Bear 121 Wise Winter Plants 127 Neat Feet	
	10. Give examples of ways in which animals depend on plants and ways in which plants depend on animals; e.g., particular plants may serve as a source of food and shelter, animals may help spread pollen and seeds.	46 What's for Dinner?  137 The Thicket Game	83 Winter-Wise Insects  129 What Gall!	

**\* End Notes** (for all tables)

- bold** - very strong correlation of activity with outcome/expectation
- m - minor modification required for SLE
- # - relevant step in activity procedure
- e - include extension activity
- aq - aquatic extension
- eval - evaluation section of activity
- var - variation section of activity

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