Academic Skills Matrix

Skills Matrix by Lesson

		Analysis	Application	Calculation	Classification	Communication	Comparison	Computation	Construction	Debate	Description	Demonstration	Drawing	Drawing Conclusions	Estimation	Evaluation	Experimentation	Gathering	Generalizing	Graphing	Hypothesizing	Identification	Inference	Interpretation	Interviewing	Inquiry	Invention	Kinesthetic Concept Development	Large Group Skills	Listening	Listing	Mapping	Matching	Measuring	Media Construction	Modeling	Observation	Ordering	Organization	Painting	Prediction	Presentation Skills	Problem Solving	Public Speaking	Reading	Recognition	Recording Data	Reporting	Researching	Roleplaying	Self/Peer Evaluation	Simulation	Small Group Work	Synthesis	Using Time & Space	Visualization	Writing
Chapter 1: Aquatic Habitats	1:1 Design a Habitat										X											X								X						X																			X	X
	1:2 Food Chain Tag	X	X															X						X				X	X																											
	1:3 Run For Your Life Cycle													X					X									X	X	X													X	X					X		X					
	1:4 Water Habitat Site Study				X		X						X																								X																			
	1:5 Habitat Hideout								X																																			X											X
	1:6 From Frozen to Fascinating					X	X				X		X	X	X		X					X				X							X			X		X		X	X					X	X					X				X
Chapter 2: Minnesota Fish	2:1 Fish Sense						X																													X			X																	
	2:2 Fins: Form & Function						X										X					X								X					X	X							X									X				X
	2:3 Fish Families				X																										X														X							X				
	2:4 Using a Key for Fish ID					X	X															X				X							X				X	X					X			X						X				
	2:5 Diving Into Diversity	X			X		X																			X											X					X		X								X				
	2:6 Adapted for Habitat								X				X						X								X									X						X		X		X						X				X	X
	2:7 Fish Tales					X					X					X														X	X								X				X		X				X		X		X				X
	2:8 Fish in Winter													X						X								X	X																				X							
	2:9 Fish Bowl					X																							X	X	X								X						X							X				X
Chapter 3: Water Stewardship	3:1 The Incredible Journey	X									X													X															X																	
	3:2 Function of Aquatic Plants					X	X						X	X								X				X											X				X			X			X	X					X				
	3:3 Wonderful Watersheds						X										X																			X	X										X									
	3:4 Would You Drink This Water?						X				X			X																							X										X						X				
	3:5 The Lake Game		X											X																X							X						X		X					X							
	3:6 Macroinvertebrate Mayhem													X										X				X	X										X													X					
	3:7 Mussel Mania																											X	X																				X		X					

continued

Academic Skills Matrix (continued)

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Chapter 4: Fish Management	4:1 Fishing Regulations & Sportsmanship					X												X												X												X			X				X	X							X
	4:2 Fish Surveys			X			X	X							X					X			X							X						X										X			X		X	X				
	4:3 Aquatic Plant Power	X					X							X			X			X														X			X				X						X					X	X				
	4:4 Town Meeting					X				X																															X		X	X					X			X				
	4:5 Fisheries Management & You					X																								X				X										X					X			X				
Chapter 5: Fishing Equipment & Skills	5:1 Freshwater Rods & Reels		X				X																					X		X							X																			
	5:2 Casting a Closed-face Rod & Reel Combo		X			X																						X									X																			
	5:3 Pop Can Casting		X			X																						X									X																			
	5:4 Tackling Your Tackle Box																					X								X			X				X					X				X							X				
	5:5 Flashy Fish Catchers		X						X								X										X			X							X															X	X			
	5:6 Fool Fish With Flies																													X			X												X							X				
	5:7 Making Ice Fishing Jiggle Sticks		X			X			X			X																								X						X										X				
Chapter 6: Safety & the Fishing	6:1 Safety & Fishing at the Water's Edge		X	X								X										X						X		X															X											X
	6:2 Ice Fishing & Winter Safety		X																			X						X		X																				X		X					
	6:3 Planning a Fishing Trip					X			X																							X												X				X				X				
	6:4 Piscatorial Palate		X				X									X	X	X		X	X																X				X							X	X							
	6:5 Eating Fish		X				X							X																X				X			X												X			X				