MACMILLAN/McGRAW-HILL SCIENCE A CLOSER LOOK

Kindergarten

TO

OREGON SCIENCE CONTENT STANDARDS

ADOPTED BY THE STATE BOARD OF EDUCATION

FEBRUARY 20, 2009

Kindergarten

Oregon Science Content Standards Kindergarten	Correlation of the Macmillan/McGraw-Hill SCIENCE Program to Oregon Science Content Standards, Kindergarten	
	Teacher's Edition Units, Chapters, Lessons, or Activities	**Teacher's Edition Page Numbers**
It is essential that these standards be addressed in contexts that promote scientific inquiry, use of evidence, critical thinking, making connections, and communication.		
K.1 Structure and Function: The natural world includes living and non-living things.		
K.1P.1 Compare and contrast characteristics of living and non-living things.	Be a Scientist Living Things: What do you see in this Science Center? Living Things Activities: Living and Nonliving Unit A: Life Science - Plants Lesson 2: How are they alike? How are they different?	 16, 17 18 36, 37
K.1L.1 Compare and contrast characteristics of plants and animals.	Unit A: Life Science - Plants Circle Time: Make a Plant Be a Reader: Read the Big Book Lesson 1: What are the parts of plants? Be a Scientist/Inquiry Investigation: Observing Stems Movement: Trees Lesson 3: How do plants grow? Assessment: Plant Parts and Needs Unit B: Life Science - Animals Circle Time: Be a Bug Lesson 3: How are these bugs alike? How are they different? Lesson 4: What do you notice about these reptiles? Be a Scientist/Inquiry Investigation: Reptile Guest Circle Time: Be a Bird Be a Reader: Read the Big Book, Be a Writer: Animals in Motion Lesson 5: What helps these birds fly? Lesson 5: What helps these animals move? Centers: Music (Animals in Motion!), Art (Fish Watercolors) Be a Reader: Read the Big Book, Be a Writer: How Animals Hide, Be a Math Wiz: Fill the Camel's Hump Lesson 6: What helps these animals stay safe?	 26 27 28, 29 30 31 42, 43 60, 61 78 80, 81 86, 87 88 90 91 92, 93 94, 95 97 99 100, 101

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Continued from previous page...	Centers: Art (Camouflage Collage), Sand Table (Make a Desert) Be a Reader: Read the Big Book	103 105
K.1E.1 Gather evidence that the sun warms land, air, and water.	<u>Unit C: Earth Science - Our Earth, Our Home</u> Science Facts: Solar Energy Differentiated Instruction: Extra Support <u>Unit D: Earth Science - Weather and Sky</u> Circle Time: What's the Weather? Be a Writer: Our Favorite Weather Develop vocabulary (Snowy, Sunny) Be a Writer: Sun Activities Differentiated Instruction: Enrichment	 154 155 170 171 172 199 201
K.2 Interaction and Change: Living and non-living things move.		
K.2P.1 Examine the different ways things move.	<u>Unit B: Life Science – Animals</u> Centers: Movement (How They Move) Centers: Movement (Guess My Pet) Circle Time: Be a Bird, Time to Move! Be a Reader: Read the Big Book, Be a Writer: Animals in Motion Lesson 5: What helps these birds fly? Lesson 5: What helps these animals move? Centers: Music (Animals in Motion!) <u>Unit F: Physical Science - Moving Right Along</u> Science Vocabulary: Toys in Motion Unit Project: Toys That Move Museum Vocabulary Activities Moving Right Along Circle Time: On the Move Be a Reader: Read the Big Book Lesson 1: How do we use wheels? Be a Scientist/Inquiry Investigation: Pull with a Pulley Centers: Music (Roll Along!), Drawing and Writing (Toys with Wheels), Blocks (Roads and Ramps)	 69 77 90 91 92-93 94-95 97 240E 240F 240J 240, 241 242 243 244, 245 246 247
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Continued from previous page...	Circle Time: Make It Move	248
	Be a Math Wiz: Rollers and Sliders	249
	Lesson 2: How many ways can the gerbils move?	250, 251
	Lesson 2: What makes these toys move?	252, 253
	Be a Scientist/Inquiry Investigation: Sliding and Rolling	254
	Centers: Drawing and Writing (Push and Pull), Technology (More About Motion), Blocks (Does It Roll?), Art (Push/Pull Mural)	255
	Circle Time: Toss Up	256
	Be a Math Wiz: Going Down	257
	Lesson 3: What will come down?	258, 259
	Be a Scientist/Inquiry Investigation: All Fall Down	260
	Circle Time: Try Magnets	268
	Be a Reader: Read the Big Book, Be a Writer: Magnetic Walk	269
	Lesson 5: What do you notice about the magnets?	270, 271
	Be a Scientist/Inquiry Investigation: Moving Clips	272
	Centers: Drawing and Writing (Pulling Through), Technology (More About Motion), Blocks (Magnetic Blocks)	273
	Performance Assessment: Things Move and Make Sounds	274
	Summative Assessment	275
K.2E.1 Identify changes in things seen in the sky.	<u>Unit D: Earth Science - Weather and Sky</u>	
	Look at Clouds: Circle Time, Time to Move!	178
	Lesson 2: What do you notice about these clouds?	180-181
	Be a Scientist/Inquiry Investigation: Observe Clouds	182
	Centers: Drawing and Writing (Cloud Books), Movement (Storm Clouds)	183
	Night and Day: Circle Time, Time to Move!	190
	Lesson 4: How does the sky change?	192-193
	Lesson 4: What do you see in the night sky?	194-195
	Investigate More: Observe	196
	Science Facts: Shadows and the Sun	200
	<u>Unit F: Physical Science - Moving Right Along</u>	
	Be a Writer: Up in the Sky	257
	Lesson 3: What will come down?	258-259
	Centers: Art (Sky Scenes)	261

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	Teacher's Edition Units, Chapters, Lessons, or Activities	Teacher's Edition Page Numbers
K.3 Scientific Inquiry: Science explores the natural world through observation.		
K.3S.1 Explore questions about living and non-living things and events in the natural world.	Be a Scientist/Inquiry Investigation	
	Unit A: Life Science - Plants	
	Observing Stems	30
	Window Box Wonder	38
	Planting Seeds	44
	Matching Leaves	52
	Plant Part Soup	58
	Unit B: Life Science - Animals	
	Animal Habitat	68
	Animal Homes	76
	Bug Collection	82
	Reptile Guest	88
	Bird Feeder	96
	Wormy Behavior	102
	Growing Animals	110
	Ask an Expert	116
	Unit C: Earth Science - Our Earth, Our Home	
	Sampling Soil	130
	Sorting Rocks	136
	Make It Rain!	144
	Getting Water	150
	Conserve Water	158
	Recycling Center	164
	Unit D: Earth Science - Weather and Sky	
	Wind Effects	176
	Observe Clouds	182
	Nature Walk	188
	The Night Sky	196
	Change Shadows	202

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Continued from previous page...	Unit E: Physical Science - Exploring Matter	
	Making Paper	216
	Sculpture Fun	222
	Pinching Pots	228
	Make It Float	236
	Unit F: Physical Science - Moving Right Along	
	Pull with a Pulley	246
	Sliding and Rolling	254
	All Fall Down	260
	Sound Cylinders	266
	Moving Clips	272
	Technology: A Closer Look	
	Quick Check (What are tools?), Read A Photo	SG: 3
	Quick Check (How can technology be helpful/harmful?)	SG: 5
	Technology in Action: Talk About It	SG: 6-7
	Use the Visuals, Quick Check, Technology in Action	TG: 2, 3
	Quick Check (What do you see in your classroom...), Read a Chart	SG: 11
	Quick Check (How are cotton and plastic different?)	SG: 13
	Technology in Action: Making Money, Talk About It	SG: 14-15
	Use the Visuals, Quick Check, Technology in Action	TG: 6, 7
	Quick Check (Can you think of some other systems?)	SG: 19
	Quick Check (What could be wrong...), Read a Diagram	SG: 21
	Technology in Action: Talk About It (Cause and Effect)	SG: 23
	Use the Visuals, Quick Check, Technology in Action	TG: 10, 11
	Quick Check (Why was the telephone a good invention?)	SG: 27
	Quick Check (Why was the typewriter an important invention?)	SG: 29
	Technology in Action: Talk About It	SG: 31
	Quick Check, Technology in Action	TG: 14, 15
Continued on next page...	Quick Check (Do you think all of Aimee's ideas will work?)	SG: 35

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	Teacher's Edition Units, Chapters, Lessons, or Activities	**Teacher's Edition Page Numbers**
Continued from previous page...	Use the Visuals, Quick Check Technology in Action: Talk About It	TG: 18 SG: 39
K.3S.2 Make observations about the natural world.	<u>Be a Scientist</u> Weather Activities The Five Senses Activities: Sorting Apples Living Things Activities <u>Unit A: Life Science - Plants</u> Be a Math Wiz: Find a Match Be a Scientist/Inquiry Investigation: Observing Stems Centers: Art (Root Prints), Cooking (Mashed Potatoes) Be a Scientist/Inquiry Investigation: Window Box Wonder Circle Time: Sprouting Seeds Be a Scientist/Inquiry Investigation: Planting Seeds Be a Writer: Favorite Flower Be a Scientist/Inquiry Investigation: Matching Leaves Centers: Music (Take a Look), Art (Leaf Rubbings) Circle Time: Feely Box Be a Math Wiz: Counting Peas Be a Scientist/Inquiry Investigation: Plant Part Soup Centers: Art (Play Dough Plants) <u>Unit B: Life Science - Animals</u> Be a Scientist/Inquiry Investigation: Animal Habitat Animal Homes Bug Collection Reptile Guest Be a Math Wiz: How Many Birds? Be a Scientist/Inquiry Investigation: Bird Feeder Growing Animals Centers: Cooking (Banana Smoothies)	 6, 7 12 18, 19 27 30 31 38 40 44 47 52 53 54 55 58 59 68 76 82 88 91 96 110 117
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Continued from previous page...	Unit C: Earth Science - Our Earth, Our Home	
	Circle Time: See-Through to Soil	126
	Be a Scientist/Inquiry Investigation: Sampling Soil	130
	Centers: Art (Beautiful Roots)	131
	Circle Time: My Rock	132
	Centers: Art (Rock Collages)	137
	Be a Scientist/Inquiry Investigation: Make It Rain!	144
	Centers: Music (Let's Look)	145
	Centers: Music (Water All Around)	151
	Circle Time: Plants are Resources	152
	Centers: Art (Water Colors), Library (Read About Natural Resources)	159
	Be a Reader: Read the Big Book	161
	Unit D: Earth Science - Weather and Sky	
	Circle Time: What's the Weather?	170
	Be a Reader: Read the Big Book, Be a Math Wiz: Weather Match	171
	Be a Scientist/Inquiry Investigation: Wind Effects	176
	Centers: Water Table (Boats on the Water)	177
	Be a Scientist/Inquiry Investigation: Observe Clouds	182
	Centers: Art (Paint the Clouds)	183
	Be a Reader: Read the Big Book	185
	Be a Scientist/Inquiry Investigation: Nature Walk	188
	Circle Time: Day Sky/Night Sky	190
	Be a Scientist/Inquiry Investigation: The Night Sky	196
	Centers: Music (What Do You See?)	197
	Circle Time: Guess the Object	198
	Be a Math Wiz: Measure Shadows	199
	Be a Scientist/Inquiry Investigation: Change Shadows	202
	Centers: Art (Shadow Puppets)	203
	Unit E: Physical Science - Exploring Matter	
	Circle Time: Fold It	212
	Be a Reader: Read the Big Book	213
	Be a Scientist/Inquiry Investigation: Making Paper	216
Continued on next page...	Circle Time: Feely Box	218

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	Teacher's Edition Units, Chapters, Lessons, or Activities	**Teacher's Edition Page Numbers**
Continued from previous page...	Centers: Drawing and Writing (My Tool Book), Water Table (Floating Boats)	223
	Circle Time: Feel Clay	224
	Be a Math Wiz: Clay Patterns	225
	Be a Scientist/Inquiry Investigation: Pinching Pots	228
	Centers: Drawing and Writing (Drawing Clay)	229
	Circle Time: Altered States	230
	Be a Math Wiz: Weighing Water	231
	Be a Scientist/Inquiry Investigation: Make It Float	236
	Centers: Music (Water, Steam, and Ice), Cooking (Ice Pops)	237
	<u>Unit F: Physical Science - Moving Right Along</u>	
	Be a Reader: Read the Big Book	243
	Be a Scientist/Inquiry Investigation: Pull with a Pulley	246
	Centers: Music (Roll Along!)	247
	Circle Time: Make It Move	248
	Be a Scientist/Inquiry Investigation: Sliding and Rolling	254
	Centers: Drawing and Writing (Push and Pull), Blocks (Does It Roll?), Art (Push/Pull Mural)	255
	Be a Writer: Up in the Sky	257
	Be a Scientist/Inquiry Investigation: All Fall Down	260
	Circle Time: Sound Detective	262
	Be a Math Wiz: Sound Patterns	263
	Be a Scientist/Inquiry Investigation: Sound Cylinders	266
	Circle Time: Try Magnets	268
	Be a Reader: Read the Big Book, Be a Math Wiz: Paper Clip Chains	269
	Be a Scientist/Inquiry Investigation: Moving Clips	272
	Centers: Drawing and Writing (Pulling Through), Art (Make Your Own)	273
	<u>Science Handbook</u>	
	Choosing Seeds, Planting	TR3
	Sprouting Seeds, Taking Care	TR4
	Earthworms	TR5
	Guinea Pigs, Fish	TR6
	Temperature	TR8
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Continued from previous page...	Health Handbook	
	Body Tracing	TR10
	Healthy Menu	TR12
	Keep It Safe	TR14
	Play It Safe	TR15
	Technology: A Closer Look	
	Tech Activity: Classroom Properties	SG: 16
	Tech Activity: Objective, Explore More	TG: 7
	Extend: Extra Activity, Materials and Their Uses	TG: 8, 9
	Technology in Action: Talk About It (Compare)	SG: 31
	Technology in Action: Turn it On!, Tech Activity: Explore More	TG: 15
	Math Link: Inventions Scavenger Hunt	TG: 16
K.4 Engineering Design: Engineering design is used to design and build things.		
K.4D.1 Create structures using natural or designed materials and simple tools.	Be a Scientist	
	Watching Weather: Make a Model	6
	Living and Nonliving: Make a Model	18
	Unit A: Life Science Plants	
	Circle Time: Make a Plant	26
	Centers: Sand Table (Stick Garden)	39
	Be a Writer: Plant Sequence	41
	Centers: Blocks (Block Garden)	45
	Be a Math Wiz: Pattern Flowers	47
	Centers: Blocks (Make a Park)	53
	Centers: Art (Play Dough Plants), Blocks (Produce Market)	59
	Unit B: Life Science - Animals	
	Be a Scientist/Inquiry Investigation: Animal Habitat	68
	Centers: Art (Animal Mural), Blocks (Animals All Around)	69
	Centers: Art (Build a Nest)	77
	Centers: Blocks (Bug Homes), Art (Bug Masks)	83
Continued on next page...	Be a Math Wiz: Snake Patterns	85

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	Teacher's Edition Units, Chapters, Lessons, or Activities	**Teacher's Edition Page Numbers**
Continued from previous page...	Centers: Water Table (Air Holes), Blocks (Staying Cool), Sand Table (Reptile Shelters)	89
	Centers: Art (Fish Watercolors)	97
	Centers: Art (Camouflage Collage), Sand Table (Make a Desert), Cooking (Forest Animals)	103
	Be a Scientist/Inquiry Investigation: Growing Animals	110
	Centers: Art (Hatching Animals)	111
	Centers: Blocks (Build a Farm), Art (Farm Needs)	117
	<u>Unit C: Earth Science - Our Earth, Our Home</u>	
	Centers: Art (Beautiful Roots)	131
	Circle Time: High Places, Low Places	138
	Be a Math Wiz: 'Round the Mountain	139
	Be a Scientist/Inquiry Investigation: Make It Rain!	144
	Centers: Movement (Mountain, Canyon, Plain), Art (Clay Mountains)	145
	Be a Scientist/Inquiry Investigation: Getting Water	150
	Centers: Blocks (Water Works)	159
	Centers: Art (Recycled Art)	165
	<u>Unit D: Earth Science - Weather and Sky</u>	
	Centers: Art (Moving with Wind)	177
	Art (Season Scenes), Blocks (City Scene)	189
	Blocks (Towering Shadows)	203
	<u>Unit E: Physical Science - Exploring Matter</u>	
	Be a Writer: Make a Book	213
	Centers: Art (Sewing Station)	217
	Centers: Water Table (Floating Boats), Art (Wire Work)	223
	Be a Scientist/Inquiry Investigation: Pinching Pots	228
	Centers: Cooking (Baker's Clay), Art (Painting Clay)	229
	Be a Scientist/Inquiry Investigation: Make It Float	236
	<u>Unit F: Physical Science - Moving Right Along</u>	
	Be a Scientist/Inquiry Investigation: Pull with a Pulley	246
Continued on next page...	Centers: Blocks (Roads and Ramps)	247

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Continued from previous page…	Centers: Art (Sky Scenes), Blocks (Breaking Down) Be a Scientist/Inquiry Investigation: Sound Cylinders Centers: Art (Make Your Own), Blocks (Magnetic Blocks) <u>Science Handbook</u> Introduce Animals: Earthworms Fish <u>Health Handbook</u> Your Body: Body Tracing Eat Healthful Foods: Healthy Menu Be Safe Outdoors: Safety Mural **<u>Technology: A Closer Look</u>** Tech Activity: Make Your Own Tool Tech Activity: Objective, Plan Ahead Tech Activity: Make a Wagon Tech Activity: Plan Ahead, Explore More Tech Activity: Making Paper Tech Activity: Objective, Explore More Tech Activity: Design a Juice Box! Tech Activity: Plan Ahead Differentiated Instruction: Enrichment	261 266 273 TR5 TR6 TR10 TR12 TR15 SG: 8 TG: 3 SG: 24 TG: 11 SG: 32 TG: 15 SG: 40 TG: 19 TG: 20
K.4D.2 Show how components of designed structures can be disassembled and reassembled. *Continued on next page…*	**<u>Technology: A Closer Look</u>** Lesson 3: Parts Work Together Parts Make Them Work, Read a Diagram Technology in Action: Put Parts Together, Talk About It Discuss the Main Idea, Use the Visuals, Technology in Action Additional Opportunities to address: <u>Unit E: Physical Science - Exploring Matter</u>	 SG: 18 SG: 20-21 SG: 22-23 TG: 10, 11

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Continued from previous page…	Lesson 2: How can we use wood and metal?	220-221
	Unit F: Physical Science - Moving Right Along	
	Lesson 1: How do we use wheels?	244-245
	Be a Scientist/Inquiry Investigation: Pull with a Pulley	246
	Centers: Drawing and Writing (Toys with Wheels), Blocks (Roads and Ramps)	247
	Lesson 2: How many ways can the gerbils move?	250-251
	Review Together Matter and Motion: What do you need to make a house?	276-277