

Kindergarten—Houghton Mifflin

The GEMS guides listed below are suggested supplements to the Houghton Mifflin curriculum. Teachers are encouraged to select the lessons from each guide they find most beneficial to their students’ needs. Most guides have kits with hands-on materials available for check-out, at no charge, from KCSOS. Contact Kathy Hill at kahill@kern.org or 661.636.4640.

GEMS uses the strategies of hands-on examination and discovery throughout its program. Therefore, we have not listed the California State Standards correlation of Investigation and Exploration, Standard 4, as one or more strands will be found as a basic component of every GEMS guide.

Unit/Lesson	TE pages	Kindergarten standard	GEMS Guide
Kindergarten--LIFE SCIENCE			
Unit A: Looking at Plants and Animals			
L#1: What Do Animals Need?	10-13	K LS 2.a,	<i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere</i> <i>Elephants and Their Young</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i> <i>Terrarium Habitats</i> <i>Tree Homes</i>
L#2: What Parts Do Animals Have?	14-17	K LS 2.a, 2.c	<i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere (2.a)</i> <i>Elephants and Their Young</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i>

			<p><i>Penguins and Their Young</i> <i>Terrarium Habitats</i> <i>Tree Homes</i></p>
L#3: How Do Animals Move?	20-25	K LS 2.a, 2.b, 2.c	<p><i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere (2.a, 2.b)</i> <i>Elephants and Their Young (2.a, 2.c)</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i> <i>Terrarium Habitats</i> <i>Tree Homes</i></p>
L#4: How Do Animals Change as They Grow?	28-31	K LS 2.a, 2.c	<p><i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere (2.a)</i> <i>Elephants and Their Young</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i> <i>Terrarium Habitats</i> <i>Tree Homes</i></p>
L#5: What Do Plants Need?	32-35	K LS 2.a	<p><i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere</i> <i>Elephants and Their Young</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i> <i>Terrarium Habitats</i> <i>Tree Homes</i></p>
L#6: What Parts Do Plants Have?	36-39	K LS 2.b, 2.c	<p><i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere (2.b)</i> <i>Elephants and Their Young (2.c)</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i></p>

			<i>Terrarium Habitats</i> <i>Tree Homes</i>
L#7: How Do Plants Change as They Grow?	40-45	K LS 2.c	<i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Elephants and Their Young</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i> <i>Terrarium Habitats</i> <i>Tree Homes</i>
L#8: How Are Plants the Same and Different?	46-49	K LS 2.a, 2.c	<i>Animal Defenses</i> <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere (2.a)</i> <i>Elephants and Their Young</i> <i>Hide a Butterfly</i> <i>Investigating Artifacts</i> <i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i> <i>Terrarium Habitats</i> <i>Tree Homes</i>

Kindergarten--EARTH SCIENCE

Unit B: Looking at Earth

L#1: What Are Earth's Materials?	60-63	K ES 3.a, 3.c	<i>Sifting Through Science (3.c)</i>
L#2: What Are Mountains and Valleys?	64-67	K ES 3.a	No GEMS guides were found to align with standard
L#3: What Are Deserts and Plains?	70-73		
L#4: Where Is Earth's Water?	74-77		
L#5: Where Do Resources Come From?	80-85	K ES 3.c	<i>Sifting Through Science</i>
L#6: How Can I Care for Earth?	86-89		

Unit C: Weather and Seasons

L#1: How Can I Describe Weather?	100-103	K ES 3.b	No GEMS guides were found to align with standard
L#2: What Are	106-109		

Weather Tools? L#3: What Happens in Spring?	110-115		
L#4: What Happens in Summer? L#5: What Happens in Fall?	118-123 124-129	K ES 3.b, K LS 2.a	No GEMS guides were found to align with standard K ES 3.b For K LS 2.a, please see GEMS guides listed under LIFE SCIENCE
L#6: What Happens in Winter?	130-135	K ES 3.b, K LS 2.a, 2.b	No GEMS guides were found to align with standard K ES 3.b For K LS 2.a and K LS 2.b, please see GEMS guides listed under LIFE SCIENCE

Kindergarten--PHYSICAL SCIENCE

Unit D: Observing Materials

L#1: How Do I Use My Senses?	146-149	K PS 1.a	<i>Eggs Eggs Everywhere</i> <i>Elephants and Their Young</i> <i>Investigating Artifacts</i> <i>Penguins and Their Young</i> <i>Sifting Through Science</i>
L#2: How Can I Sort Objects?	152-155		
L#3: Which Objects Sink or Float?	156-159		
L#4: Which Objects Are Magnetic?	160-163		
L#5: What Are Things Made Of?	164-167		
L#6: How Can Water Be a Liquid or a Solid?	170-173	K PS 1.b	<i>Penguins and Their Young</i>
L#7: When Does Water Evaporate?	176-179	K PS 1.c	<i>Sifting Through Science</i>

Kindergarten--INVESTIGATION AND EXPERIMENTATION

While the guide listed below does not address specific Kindergarten standards in Life, Earth, or Physical Science, it does meet standards within the Investigation and Experimentation standard set.

Bubble Festival