

Kindergarten—Macmillan/McGraw-Hill

The GEMS guides listed below are suggested supplements to the Macmillan/McGraw-Hill 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.

Chapter/Lesson	TE pages	Kindergarten standard	GEMS Guide
Kindergarten--LIFE SCIENCE			
Chapter 1: Plants			
L#1: What Plants Need	20-27	K LS 2.a, 2.b	<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 (2.a only)</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: Parts of Plants	28-33	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#3: How Plants Grow	34-39	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#4: Look Leaves and Flowers L#5: Plants We Use	40-47 48-53	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>
Chapter 2: Animals			
L#1: What Animals Need	58-65	K LS 2.a, 2.b	<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 (2.a only)</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: Animals are Everywhere L#3: Insects L#4: Reptiles L#5: Birds L#6: Fish	66-71 72-77 78-83 84-89 90-95	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#7: Staying Safe L#8: Grow and Change	96-101 102-109	K LS 2.c	<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>

Kindergarten--EARTH SCIENCE

Chapter 3: Our Earth, Our Home

L#1: Land High and Low L#2: Water All Around	118-125 126-131	K ES 3.a	No GEMS guides were found to align with standard
L#3: Earth's Resources L#4: Recycle, Reuse	132-139 140-145	K ES 3.c	<i>Sifting Through Science</i>

Chapter 4: Weather

L#1: Changing Weather L#2: Effects of Weather L#3: The Seasons	150-157 158-165 166-171	K ES 3.b	No GEMS guides were found to align with standard
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Kindergarten--PHYSICAL SCIENCE

Chapter 5: Exploring Matter

L#1: Paper and Cloth L#2: Wood and Metal L#3: Working with Clay L#4: Magnets L#5: Sink and Float	180-185 186-191 192-197 198-203 204-209	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>
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Chapter 6: Investigate Water

L#1: Solid and	214-219	K PS 1.b	<i>Penguins and Their Young</i>
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Liquid			
L#2: Where Did the Water Go?	220-225	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