

Office of Larry E. Reider
Kern County Superintendent of Schools
Advocates for Children

First Grade—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	1 st grade standard	GEMS Guide <small>Bold type represents a GEMS unit which addresses all standards in that standard set for the respective strand.</small>
1st grade--LIFE SCIENCE			
Chapter 1: Plants and Their Needs			
L#1: Plants Everywhere	24-31	1 LS 2.a	<i>Buzzing a Hive</i> <i>Investigating Artifacts</i> <i>Terrarium Habitats</i>
L#2: What Plants Need	32-41	1 LS 2.b	<i>Buzzing a Hive</i> <i>Ladybugs (Activity 5)</i> <i>Terrarium Habitats</i>
L#3: Parts of Plants	42-49	1 LS 2.e	<i>Terrarium Habitats</i> <i>Tree Homes</i>
Chapter 2: Animals and Their Needs			
L#1: Animals Everywhere	64-71	1 LS 2.a	<i>Animal Defenses</i> (PK-K guide. Some activities can be adapted to 1 st grade) <i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere</i> <i>Elephants and Their Young</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 Animals Need	72-79	1 LS 2.b	<i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere</i> <i>Elephants and Their Young</i>

			<i>Ladybugs</i> <i>Mother Opossum and Her Babies</i> <i>Penguins and Their Young</i> <i>Terrarium Habitats</i>
L#3: How Animals Get Food	80-89	1 LS 2.d	<i>Animal Defenses</i> (PK-K guide. Some activities can be adapted to 1 st grade) <i>Elephants and Their Young</i>
Chapter 3: Plants and Animals Together			
L#1: Land Habitats	104-111	1 LS 2.a	<i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere</i> <i>Elephants and Their Young</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: Water Habitats L#3: Plants and Animals Need Each Other L#4: Food Chains	112-119 120-127 128-135	1 LS 2.c	<i>Ant Homes Under the Ground</i> <i>Buzzing a Hive</i> <i>Eggs Eggs Everywhere</i> <i>Elephants and Their Young</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>
1st grade--EARTH SCIENCE			
Chapter 4: Weather			
L#1: Describe Weather	154-161	1 ES 3 (This is a building block lesson)	No GEMS guides were found to align with standard
L#2: Warmth of the Sun	162-169	1 ES 3.c	<i>Terrarium Habitats</i> <i>Tree Homes (Activity 3)</i>
L#3: Measure Weather	170-179	1 ES 3.a	No GEMS guides were found to align with standard
Chapter 5: Seasons			
L#1: Winter L#2: Spring L#3: Summer L#4: Fall	194-201 202-209 210-217 218-225	1 ES 3.b	No GEMS guides were found to align with standard

1st grade--PHYSICAL SCIENCE			
Chapter 6: Solids, Liquids, and Gases			
L#1: Describing Matter	244-251	1 PS 1 (This is a building block lesson)	<i>Matter: Solids, Liquids & Gases</i>
L#2: Solids L#3: Liquids L#4: Gases	252-259 260-267 268-275	1 PS 1.a	<i>Elephants and Their Young Involving Dissolving Liquid Explorations Matter: Solids, Liquids & Gases Penguins and Their Young Secret Formulas Sifting Through Science</i>
Chapter 7: Changing Matter			
L#1: Heating Matter L#2: Cooling Matter L#3: Mixing Matter	290-297 298-305 306-315	1 PS 1.b	<i>Elephants and Their Young Involving Dissolving Liquid Explorations Matter: Solids, Liquids & Gases Penguins and Their Young Secret Formulas</i>
1st grade--INVESTIGATION AND EXPERIMENTATION			
While the guide listed below does not address specific 1 st grade standards in Life, Earth, or Physical Science, it does meet standards within the Investigation and Experimentation standard set.			
<i>Bubble Festival</i>			