

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> |

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| | | | <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> |

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| | | | <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

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| 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

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| 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

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| 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

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| 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