EPSD Curriculum and HMH SCIENCE DIMENSIONS 2018 Alignment TEMPLATE

GRADE 2

EPSD Unit 1: Relationships in Habits
First Marking Period

<table>
<tr><td colspan="2">Overview: In this unit of study, students develop an understanding of what plants need to grow and how plants depend on animals for seed dispersal and pollination. Students also compare the diversity of life in different habitats. The crosscutting concepts of cause and effect and structure and function are called out as organizing concepts for these disciplinary core ideas. Students demonstrate grade-appropriate proficiency in planning and carrying out investigations and developing and using models. Students are also expected to use these practices to demonstrate understanding of the core ideas. This unit is based on 2-LS4-1, 2-LS2-1, 2-LS2-2, and K-2-ETS1-1.</td><td colspan="4">HMH Science Dimensions Program Resources</td></tr>
<tr><td colspan="2">Standards: Make observations of plants and animals to compare the diversity of life in different habitats. (2-LS4-1) Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations). (2-LS2-1)

Instructional Days: 15-20</td><td colspan="4">Unit 3: Environments for Living Things
Unit Video (bird using its beak to get food); Unit Overview p. 107; Vocabulary p. 109 Connecting with NGSS p. 109J; Unit Project p. 109K; Unit Performance Task p. 178-179; Unit Review pp. 180-182</td></tr>
<tr><td colspan="2"></td><td colspan="4">Standard for all Units: Interactive Glossary (D); Leveled Readers (D); Beginning-of-Year Test (D/P); Unit Pretest (D/P); Lesson Quizzes (D/P); Unit Test (D/P)

Note: Refer to the Curriculum Alignment Common Language (CACL) Guide to decipher acronyms.</td></tr>
<tr><td colspan="2"></td><td>Lesson 1: What Do Plants Need? pp. 110-123

D/P- CYEI (video) Plant being watered p. 111

D/P- CYEI What would happen if a plant does not get the things it needs? p. 111</td><td>Lesson 2: Engineer It: How Do Plants Depend on Animals? pp. 124-139

D/P- CYSI (video) A bee moving pollen p. 125

D/P-CYSI You want to add more flowers to your</td><td>Lesson 3: What Plants and Animals Live in Water Habitats? pp. 140-155

D/P- CYEI (video) water habitats p. 141

D/P- CYEI Why do some plants and animals only live in</td><td>Lesson 4: What Plants and Animals Live in Land Habitats? pp. 156-177

D/P- CYEI (video) land habitats p. 157

D/P- CYEI Why do certain plants and animals only live in</td></tr>
</table>

EPSD Curriculum and HMH SCIENCE DIMENSIONS 2018 Alignment TEMPLATE

Objective: Students will make observations of plants and animals to compare the diversity of life in different habitats. **Topics:** Plants and Animals Twenty-First Century Themes and Skills include: Environmental Literacy • The Four C's • Global Awareness **Essential Questions**: How does the diversity of plants and animals compare among different habitats? What do plants need to live and grow?	D/P- What Plants Need (Students view digital pictures and explore online to find out more about how plants use certain things to grow and stay healthy) pp. 112-113 P- AWYK Read, Write, Share (Students work in a small group to discuss what Plant 1 needs to look more like plant 2.) p. 113 D/P- Taking It In (Students explore online to find out more about a plant's roots, stems and leaves.) pp. 114-115 D/P- DTM (Students demonstrate understanding with Using Equal Groups.) p. 116 P- AWYK (ENB) Students work with a partner to	garden. How can bees help solve this problem? p. 125 D/P- Animals Help Spread Seeds (Students watch videos and explore online to find out more about how animals help spread seeds.) pp. 126-127 P- AWYK Read, Write, Share (Students think about a time they may have walked through the woods and found burrs stuck to their socks; use this example to discuss moving seeds. Have students create a drawing or use pictures to support their ideas.) p. 128 D/P- HO Activity Engineer It: Plan and Build a Model Tool (Students plan and investigate how to build a model bird beak to move	ponds, in river deltas, or in tide pools? p. 141 D/P- Ponds (Students watch video and explore online to find out more about pond habitats.) pp.142-143 P- AWYK (ENB) Students work with a partner to discuss what makes a pond a good place to live; students identify patterns, use evidence to support ideas, and record answers in their ENB. p. 143 D/P- River Deltas (Students watch video and explore online to find out more about river delta habitats.) pp. 144-145 P- AWYK (ENB) Students work with a partner to discuss why a river delta is a good place for	certain land habitats? p. 157 D/P- Rain Forest Habitats (Students watch video and explore online to learn more about plants and animals that live in a rain forest.) pp. 158-161 P- AWYK (ENB) Students work with a partner to explain why a rain forest is a good place for an iguana to live; students use evidence to support their ideas, identify patterns and record answers in their ENB. p. 161 D/P- Forest Habitats (Students watch video and explore online to find out more about forest habitats.) pp. 162-165 P- AWYK (ENB) Students choose all animals that might

	observe plants and record answers in ENB. p. 116 D/P- HO Activity Explore What a Plant Needs (Students plan and conduct an investigation to see how water moves through plants; students watch video online to set up and complete the activity.) pp. 117-118 D/P- TIF (enrich) Where Plants Grow; Growing Plants Without Soil pp. 119-120 D/P- Lesson Check p. 121 D/P- Self Check pp. 122-123 D- Lesson Quiz P- DI (ELL/RTI) p. 109I P-Extension p. 109I P- COLLAB p. 109J	seeds; students watch video about setting up and doing the activity.) pp. 129-130 D/P- DTM Make a Bar Graph (Students complete a bar graph to show the results of testing the tool they built.) p. 131 D/P- How Animals Spread Pollen (Students explore online to find out more about how animals spread pollen.) pp. 132-133 P- AWYK (ENB) Students work in a small group to discuss how animals might help the sunflower; students use evidence to support their ideas and record answers in ENB. p. 134 D/P- TIF (enrich) Careers in Science and Engineering:	some plants and animals to live and record their answers in their ENB. p. 145 D/P- Tide Pools (Students watch video and explore online to find out more about tide pool habitats.) pp. 146-148 P- AWYK Read, Write, Share (Students research the plants and animals that live in a water habitat close to their homes; students identify patterns, similarities and differences, and make a poster of the plants and animals.) p. 148 D/P- HO Activity Make Model Habitats (Students plan and build a model of a habitat found in a tide pool; student	live in a forest and use evidence to support their answers; students record their answers in their ENB. p. 165 D/P- Savanna Habitats (Students watch video and explore online to find out more about savanna habitats.) pp. 166-169 P- AWYK (ENB) Students explain why the savanna is a good place for an elephant to live; students identify patterns, use evidence to support answers and record evidence in their ENB. p. 169 D/P- DTM Display Data (Students draw bars on the graph to show 3 bats, 1 bush baby, 1

	P- Connecting with NGSS p. 109J D- Science Safety HB D- CCC-HB D- ELA-HB D- M-HB D- SEP-HB D- ScienceSarurs Reference HB	Horticulturalist; Other Ways Seeds Travel pp. 135-136 D/P- Lesson Check p. 137 D/P- Self Check pp. 138-139 D- Lesson Quiz P- DI (ELL/RTI) p. 109I P-Extension p. 109I P- COLLAB p. 109J P- Connecting with NGSS p. 109J D- Science Safety HB D- CCC-HB D- ELA-HB D- M-HB D- SEP-HB D- ScienceSarurs Reference HB	watch video to set up and complete the activity.) pp. 149-150 D/P- TIF (enrich) Careers in Science and Engineering: Marine Biologist; Coral Reefs pp. 151-152 D/P- Lesson Check p. 153 D/P- Self Check pp. 154-155 D- Lesson Quiz P- DI (ELL/RTI) p. 109I P-Extension p. 109I P- COLLAB p. 109J P- Connecting with NGSS p. 109J D- Science Safety HB D- CCC-HB D- ELA-HB D- M-HB D- SEP-HB D- ScienceSarurs Reference HB	elephant, and 1 parrot.) p. 170 D/P- HO Activity Make a Habitat Exhibit (Students make a plan to research and compare plants and animals that live in a habitat found in the savanna and then display their results in an exhibit; students watch video to set up and complete the activity.) pp. 171-172 D/P- TIF (enrich) People in Science and Engineering: Dr. Emillio Bruna; Stepping on Habitats pp. 173-174 D/P- Lesson Check p. 175 D/P- Self Check pp. 176-177 D- Lesson Quiz

				P- DI (ELL/RTI) p. 109I P-Extension p. 109I P- COLLAB p. 109J P- Connecting with NGSS p. 109J D- Science Safety HB D- CCC-HB D- ELA-HB D- M-HB D- SEP-HB D- ScienceSarurs Reference HB D- YSI Simulation City Habitats

EPSD Curriculum and HMH SCIENCE DIMENSIONS 2018 Alignment TEMPLATE

Curriculum Alignment Common Language (CACL) Guide K-5		
Acronym	**Word/Phrase**	**Description**
AWYK	Apply What You Know	Hands on opportunities for students to apply learning.
CER	Claims Evidence Reasoning	Students make a claim and gather evidence along the way (during EXPLORATORY activities) to support claim.
CYEI	Can You Explain It	Lesson phenomenon used to ENGAGE students in learning at the beginning of the lesson.
CYSI	Can You Solve It	Lesson phenomenon used to ENGAGE students in learning at the beginning of the lesson.
D	Digital	Program resources and features in interactive digital form.
DI (ELL/RTI) **Extension** **COLLAB** **Connections to Science**	Differentiated Instruction (English Language Learner/Response to Intervention) Collaboration Connections to Science	A page that lists all learning activities used to differentiate learning, engage students in collaborative activities and connect learning to other subjects.
DTM	Do the Math	Integrated subject learning.

EPSD Curriculum and HMH SCIENCE DIMENSIONS 2018 Alignment TEMPLATE

ENB	Evidence Notebook (prompt)	Student notebook or journal used to gather evidence during EXPLORATORY learning activities to support their claims.
ENGIT	Engineer It	Integrated subject learning.
HB **CCC-HB** **ELA-HB** **M-HB** **SEP-HB**	Handbooks Crosscutting Concepts English Language Arts Math Science and Engineering Practices	Students who need extra support in grasping concepts or to refresh student knowledge of skills.
HO	Hands-On (Activity)	Student collaboration activities.
LS	Language Smarts	Integrated subject learning.
P	Print	Program resources and features in print form.
TIF	Take It Further (enrich)	Enrichment activities for students in print or digital.
YSI	You Solve It (Simulation)	Open-ended simulation-based learning with multiple answer options.