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Unit Plan Overview for Interdisciplinary Traveling Trunk

Title of Unit: Life Cycle with a Focus on Butterflies Grade Level: 2nd Duration: 7 Days

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Alignment with Common Core and/or South Carolina Academic Standards for two or more content areas:

Science	**Math**	**ELA**	**Social Studies**
Standard 2-1: The student will demonstrate an understanding of scientific inquiry, including the processes, skills, and mathematical thinking necessary to conduct a simple scientific investigation. Indicators: 2-1.1 Carry out simple scientific investigations to answer questions about familiar objects and events. 2-1.3 Represent and communicate simple data and explanations through drawings, tables, pictographs, bar graphs, and oral and written language. Infer explanations regarding scientific observations and experiences. Standard 2-2: The student will demonstrate an understanding of the needs and characteristics of animals as they interact in their own distinct environments. (Life Science) Indicator: 2-2.5 Illustrate the various life	Standard: 2.G.1. Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. *Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. Indicators: 2.OA.2 Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers. (See standard 1.OA.6 for a list of mental strategies.) 2.OA.3 Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.	Indicators: 2.SL. 2 Recount or describe key ideas or details from a text read aloud or information presented orally or through other media. 2. KD. 1 Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text. Writing Standard 2-5 The student will write for a variety of purposes and audiences. Indicator: Create written pieces that describe objects, people, places, or events and that use words that appeal to the senses.	Indicator: 2-2.2 Recognize characteristics of the local regions, including its geographic features and natural resources. (G, E)

cycles of animals (including birth and the stages of development).			

Connections to Exploratories:

Art	**Music**	**Technology**	**PE**
Students will design a symmetric butterfly of their own using shapes and creativity. Students will put on a performing arts play for the kindergarteners.	Students will sing along to a butterfly song to help them understand the stages of the life cycle.	Students will have the opportunity to help create a symmetry butterfly on the smart board.	Students will get the chance to go on a scavenger hunt to find camouflaged "caterpillars".

Summary of activities showing connections between content areas	- Science - • All activities below are focused on the main content area of science and the butterfly life cycle. Every activity in this lesson can be found with some type of connection to another content area. - English Language Arts – • Read Alouds and group readings (A summary of the numerous options of books can be found below in the text set selection and more on the budget sheet.) • Writing (Students will have numerous writing experiences including but not limited to: observation recordings, fictional text, non-fictional text, and using the writing process throughout the unit.) - Math - • Symmetry (Students will learn and experience what it means to be symmetrical. Butterflies have symmetrical wings.) • Simple Number Usage (Students will record in their journals the number each day standards for. Monday will be day 1; Tuesday will be day 2. Students should record the days and this will give them an opportunity to use math to figure out how long it takes a butterfly to change stages.) - Social Studies - • Migration Posters (Learning about migration will give students the chance to review the country they live in and how their ancestors arrived here.) - Arts (Art, Music, P.E.) - • Theatre Play (Kindergarten and second grade will each put on a play to show information they learned about the life cycle this year.) • Butterfly Songs (Songs will help students remember the phases of the butterfly life cycle.) • Scavenger Hunts (More than once throughout the unit students will be able to move around outside to hunt down characteristics of caterpillars and then

	butterflies.) • Illustrations (Students will have the opportunity to illustrate the life cycle in more than one way.) -Technology • Promethean Planet (Throughout the unit, students will have the opportunity to use the promethean board to experience different properties of the life cycle and butterflies and caterpillars.)
Text Set (This might include children's literature, magazines, films, maps, brochures, websites, and other resources)	Children's Literature: The Very Hungry Caterpillar By: Eric Carle Butterfly House By: Eve Bunting Sunflower House By: Eve Bunting A Book of Colors Butterfly Butterfly By: Patr Hornacek From Caterpillar to Butterfly By: Gerald Legg Butterfly and Caterpillar By: Barrie Watt Ten Little Caterpillars By: Bill Martin, Jr. Jake and the Migration of the Butterfly By: Crystal Ball O'Conner Wait and See By: Elena Martin Looking at Insects By: David Glover Animal Life Cycles By: Susan DeStefano Caterpillars By: Robyn Green Websites: www.Unitedstreaming.com http://boowakwala.uptoten.com/kids/boowakwala-adventures-butterfly-butterflycolor.html www.discoveryed.com www.teacherspayteachers.com
Essential Questions	1. How can you describe the phases of the life cycle? 2. How do caterpillars grow and change throughout their life cycle? 3. How does the environment of an animal effect the animal? 4. What is the difference between complete and incomplete metamorphosis? Use examples.

Pre-Writing and Writing Activities	Daily Observations of the changes of the life cycle of a butterfly. Pre- Writing: What do you know about life cycles? Include animal examples. During Writing: You have three minutes to describe characteristics of a butterfly. Bonus: Include the new math term we've used when creating our butterfly designs. Writing Assessment: Take out your writing "What do you know about life cycles?" Please revise and add information of all that you learned throughout the week about life cycles and how animals change. Use any new vocabulary that you might have learned.
Instructional Strategies	- Video learning to experience the butterfly life cycle in minutes - Demonstrate the stages of the life cycle - Hands – on activities to explore facts about butterflies - Acting out and performing the life cycle of a butterfly - Responding and reflecting to information learned about the life cycle and butterflies - Observing and recording the life cycle of a caterpillar into a butterfly over time - Read-alouds (fiction and nonfiction) - Questioning throughout the unit - Discussion throughout the unit
Accommodations, Modalities of Learning, Differentiating Instruction	Leveled books Different representation strategies of the life cycle Matching groups up with a purpose Each lesson has specific adaptations to make it to reach both kindergarten and second grade. Lessons 2 and 7 are done completely different for each grade level to make sure complete differentiation and be used.
Vocabulary	Life Cycle, Developing, Birth, Reproduce, Death, Digest, Egg, Compare, Contrast, Characteristics, Adult, Chrysalis, Environment, Metamorphosis, Insect, Larva, Pupa, Change, Habitat, Observe
Assessments	Ticket out the door Butterfly Symmetry Worksheet Writing Assignments Project Option (Found in Project Folder) (Personal evaluations during the evaluation activity; anecdotals)
Other Materials	Use a microscope to analyze any part of the life cycle that didn't make it.

Attached: Daily Lesson Plans (in Learning Cycle, 5E, or 7E Procedures format)