

# East Los Angeles College

## CD 4 STEAM Curriculum Project (50 points)

**Name:** [REDACTED]

**Date:** 05/23/2020

**Theme/Topic:** Ladybugs

<p><b>Science</b></p> <p><u><b>Domain:</b></u> Science (Life Science, Physical Science, Earth and Space Science, Ecology, Scientific Inquiry etc)</p>	<p><b>Name of Activity:</b> Small Beetle- Ladybugs life cycle.</p> <p><b>Objectives (2):</b> Children will be able to explain the life cycle of a ladybug. Which includes these four stages 1) Egg 2) Larva 3) pupa 4) Adult Ladybug.</p> <p>Children will be able to identify the preference environment of a ladybug. Ladybugs mainly live near shrubs, trees, fields, gardens and sometimes homes. Their main source of food is aphids, so they often lay eggs near a colony.</p> <p><b>Open-ended Questions (2):</b> How long does a ladybug live?</p> <p>What do ladybugs eat?</p> <p>Would Ladybugs struggle to live in certain weather conditions? Such as too cold, too hot?</p> <p><b>Standard (1) and DRDP (1)</b></p> <p>Sense of place - <b>2.1</b> show an interest in nature especially as children experience it directly. Begin to understand interactions with the environment and the importance of taking care of plants and animals.</p> <p>ATL-REG 4 Curiosity and initiative in learning.</p>
<p>Technology</p> <p><u><b>Domain:</b></u> Science (scientific inquiry), Physical Development</p>	<p><b>Name of Activity:</b> Microscopic Ladybug</p> <p>Objectives (2): Children will be able to point out the ladybugs main body parts- head, thorax, and abdomen.</p> <p>Children will be able to locate ladybug eggs on a leaf.</p> <p><b>Open-ended Questions (2):</b> How many body parts total does a ladybug have?</p> <p>What would ladybug eggs look like?</p> <p><b>Standard (1) and DRDP (1):</b></p>

	<p>Physical development 3.4 Use any two body parts together.</p> <p>COG 2 Classification</p>
<p><b>Engineering</b></p> <p><b><u>Domain:</u> Physical Development, Visual and Performing Arts,</b></p>	<p><b>Name of Activity: Ladybug house</b></p> <p><b>Objectives (2):</b> Children will describe the process of building the ladybug house.</p> <p>Children will be able to assemble a ladybug made from paper, then color it.</p> <p><b>Open-ended Questions (2):</b> what do you need in a ladybug house, so that the ladybug can survive?</p> <p>How do you design a ladybug?</p> <p><b>Standard (1) and DRDP (1):</b> Comprehension and analysis of age appropriate 4.1 demonstrate knowledge of main characters or events in a familiar story( e.g who, what, where) Through answering questions retelling, reenacting or creating artwork( younger).</p> <p>PH-HLTH Fine motor manipulative skills.</p>
<p><b>Arts</b></p> <p><b><u>Domain:</u> Visual and Performing Arts, Physical Development, Language and Literacy</b></p>	<p><b>Name of Activity: Drawing ladybugs.</b></p> <p><b>Objectives (2):</b> Children will improve their fine motor skills.</p> <p>Children will be able to describe their ladybug drawing/ creation.</p> <p><b>Open-ended Questions (2):</b> How many ladybugs are there in the world?</p> <p>How do you distinguish a ladybug?</p> <p><b>Standard (1) and DRDP (1):</b> Language &amp; literacy <b>2.3</b> Understand and use simple words that describe relations between objects.</p> <p>VPA Visual arts.</p>
<p><b>Mathematics:</b></p> <p><b><u>Doman:</u> Mathematics (Number and Operation, Geometry, Pattern,</b></p>	<p><b>Name of Activity: Counting / patterns with ladybugs</b></p> <p><b>Objectives (2):</b> Children will be able to count ladybug spots which range from 0 to 7.</p> <p>Children will be able to create a pattern using different color ladybugs orange and red.</p>

Measurement, Graphing etc.)	<p><b>Open-ended Questions (2)</b> Do ladybugs only have spots or can they have stripes?</p> <p>How many different color ladybugs are there?</p> <p>How many eggs can a ladybug hatch?</p> <p><b>Standard (1) and DRDP (1):</b> Algebra &amp; functions (classification &amp; patterning) 2.1 begin to identify or recognize simple repeating patterns. (younger)</p> <p>COG 6 Patterning</p>
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**1. What did you learn from this course and how would you use this information in the future? (5 points)**

Taking this course was a complete honor. This course has not only taught me how to work with Children but has also taught me how to be a better parent. I learned many new things; I did not know prior to CD 4. A Few things that stood out to me the most were **DAP and its 3 core considerations** - Teachers meeting young children where they are (by stage of development). Considerations about child development and learning, knowing what is individually appropriate and knowing what is culturally important. **STEAM**- a curriculum based on the idea of educating students with science, technology, engineering, arts, and math. **Nutrition** and its importance because it became a national issue. Obesity which impacts many children. When teaching children about nutrition and cooking activities, children get firsthand experience, sense of accomplishments, awareness of touch, taste and smell, also a positive encounter with food and gaining knowledge which helps them form lifelong healthy eating habits. This course has also taught me how to be creative and use my imagination to its highest potential. I will use this knowledge, when working with children as well as working with my own children.