



Pacifica's Mobile Nature & Horticulture Center

"Cycles"

Kindergarten and First Grade Program Outline

Introduction: All of life is enmeshed in cycles and circles, small and large. The students will be greeted with a large circle that they can take turns spinning. On it will be placed a variety of cycles: plant life, butterflies, frogs, and seasons. Cycles will be discussed on how they inter-relate with each other and with our lives.

NATURE CENTER STATION OBJECTIVES:

1. To examine the life cycles of butterflies and frogs.
2. To discuss the cycle of water and its importance in our lives.

ACTIVITIES:

YELLOW:

1. Students will use stamps to learn the life cycles of butterflies and/or frogs.

BLUE:

2. Students will help to manipulate models of a water cycle and discuss how important it is to life.

HORTICULTURE CENTER STATION OBJECTIVES:

1. To explore the life cycle of plants.
2. To identify parts of a cycle.
3. To identify examples of change.
4. To compare and associate pictures of plants with the seasons.
5. To plant seeds for school and/or home vegetable garden.

ACTIVITIES:

RED:

1. Students will explore the cycle of night and day with a globe.
2. Students will match the seasons to pictures of plants in that season (e.g. bare tree, seedling, flowers, and fruit).

3. Students will plant vegetable seeds.

Connections to the Certificate of Initial Mastery (CIM) Standards:
Nature Center Objectives –

Unifying Concepts and Processes: Understand and apply major concepts and processes common to all sciences.

Common Curriculum Goal: Apply foundation concepts of change, cycle, cause, and effect, energy and matter, evolution, perception, and fundamental entities.

Content Standards: Use concepts and processes of – change, constancy, and measurement.

Leads to Benchmark at Grade 3:

1. Student will be able to identify examples of change.
2. Student will be able to arrange parts of a cycle.
3. Student will be able to recognize and diagram the parts of a system.
4. Students will be able to compare objects, drawings, and constructions to the real things they represent.

Horticulture Center Objectives –

Unifying Concepts and Processes: Understand and apply major concepts and processes common to all sciences.

Common Curriculum Goal: Apply foundation concepts of change, cycle, cause, and effect, energy and matter, evolution, perception, and fundamental entities.

Content Standards: Use concepts and processes of – change, constancy, and measurement.

Leads to Benchmark at Grade 3:

1. Student will be able to identify examples of change.
2. Student will be able to arrange parts of a cycle.
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4. Students will be able to compare objects, drawings, and constructions to the real things they represent.

Background Information: It is included in the front pocket of each grade level activity.

Post-Activities:

1. Complete the activities started in the caterpillar –
 - a. Care for the vegetable seeds planted in pots

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- i. Create a school garden or send them home to be tended after the plants start to come up.
2. There is information about several possible post-visit activities in the back pocket of each grade level's folder.