



The Life Cycle of Butterflies

TEKS:

2.2 Develop abilities necessary to do scientific inquiry in the field and in the classroom. The student is expected to:

f. **communicate** explanations about investigations.

2.5 Organisms objects and events have properties and patterns. The student is expected to:

a. **classify** and **sequence** organisms, objects, and events based on properties and patterns; and

b. **identify, predict, replicate, and create** patterns including those seen in charts, graphs, and numbers.

2.6 Systems have parts and are composed of organisms and objects. The student is expected to:

a. **manipulate, predict, and identify** parts that, when separated from the whole, may result in the part or the whole not working , such as flashlights without batteries and plants without leaves;

d. **observe and record** the functions of animal parts.

2.7 Many types of change occur. The student is expected to:

a. **observe, measure, record, analyze, predict, and illustrate** changes in size, mass temperature, color, position, quantity, sound, and movement.

2.8 Distinguish between living organisms and nonliving objects. The student is expected to:

a. **identify** characteristics of living organisms.

b. **identify** characteristics of nonliving objects.

2.9 Living organisms have basic needs. The student is expected to:

a. **identify** the external characteristics of different kinds of plants and animals that allow their needs to be met; and

b. **compare** and give examples of the ways living organisms depend on each other and on their environments.

2.10 The natural world includes rocks, soil, water, and gases of the atmosphere. The student is expected to:

b. **identify** uses of natural resources.

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Teaching Time Line

Day	Lesson Title	Thinking Map	Sessions time	Instructional Method
1	Inventory, report any missing materials		45 min. prep. time	Teacher
Living Materials	Live materials will arrive 1 week after kit arrival			
2	1. Getting Ready for Caterpillars	Circle	30 min.	Whole group
3	2. Caring for Caterpillars	Circle	30 min.	Whole group
4	3. Learning More about Caterpillars	Bubble, Double Bubble, Flow	30 min.	Whole group
5	4. Observing the Caterpillars	Flow, Brace	30 min.	Center
Varies	5. Observing Change: Growth and Molting	Flow	30 min.	Center
Varies	6. Silk Spinning		30 min.	Center
Varies	7. From Caterpillar to Chrysalis	Flow	30 min.	Center
Varies	8. Observing the Chrysalis	Bubble	30 min.	Center
Varies	9. The Butterfly Emerges/ life cycle wheel		40 min.	Center w/ model
Varies/ ongoing	10. Feeding the Butterflies	Flow	30 min.	Whole group
	11. The Butterfly's Body	Brace	30 min.	Whole group
	12. The Butterflies Go Free		30 min.	Whole group/outside
	13. Using Our Data		40 min.	Whole group
	14. Discovering that Butterflies are Insects	Bubble, brace	30 min.	Whole group
	15. Other Life Cycles	Flow	40 min.	Whole group
		Circle	30 min.	Center
3-5 days	Review, ASSESS , Reteach as Needed			