



CMIT Butterfly Unit



BY: CMIT STEAM COMMITTEE

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Butterfly Unit Plan

This unit will give a variety of activities teachers can adapt for a full hands on learning experience. Our school was lucky to get [Insectlore](#) butterfly garden sets donated by our school community. The butterfly kits will allow scholars an opportunity to have a real world experience by becoming scientists and researching, investigating, observing, and collecting data on the life cycle of painted lady butterflies. Each classroom will receive one small caterpillar, and observe the caterpillars go through their lifecycle.

Community partnerships:

Parents should be invited by teachers to help plant the garden/flowers in Ecology, read butterfly stories in the media center, and complete the STEM projects in class. The STEM committee will invite parents out to the Butterfly release party on **May 20th**. All butterfly art should be displayed throughout the school walls. Pictures of students should also be included. Students may create butterfly feeders for their STEM activity. The school will plant the butterfly garden. The entire CMIT family will participate in the Butterfly release. **Please note parents are invited to stay the entire day.** Please have fun engaging STEAM activities during class time.

Content Standards and objectives:

Learning Objectives:

Students will understand the life cycle of a butterfly. Students will explore butterfly habitats. Students will create stories explaining information learned. Students will develop an understanding of which scientists study insects and careers that involve insects. Students will identify sequential order. Students will use shapes, colors, and symmetry to create art. Students will make connections between content and the real world. Students will understand the Engineering and Design Process.

Science Standards covered: [K- LS1-1](#), [1-LS1-1](#), [2-LS1-1](#), [3-LS1-1](#), [4-LS1-1](#), [5LS1-1](#)

Unit Timeline

The Lifecycle of a Butterfly

Instructor	Activity	Day
Homeroom teachers	Teachers should find a location in their class for the butterfly. Review the butterfly video for your proper planning. Teachers should discuss during team collaborative planning.	5/02/2022-5/06/2022
Ecology and Homeroom teachers.	Students should start planting butterfly garden flowers/plants indoors during their science time. *opportunity to invite parents	5/02/2022-5/06/2022
Homeroom	Teachers will receive the butterfly larva cups. Teachers should review the unit expectations. Students should start collecting data on what they see each day as they observe the butterfly life cycle.	5/06/2022
Art teacher	Complete butterfly painting using colors , shapes , and/or symmetry . Murals and rock painting.	5/09/2022-5//2022
Music teacher	Students can learn a song about butterflies.	4/29/2019-5/20/2019 During Music class.
Lego teacher	Students can build butterflies out of legos . Students can also build the butterfly life-cycle out of legos.	4/29/2019-5/20/2019 During Lego class
P.E. teacher	Students may play butterfly and bee tag .	4/29/2019-5/20/2019 During P.E. Class
Technology Teacher	Students can also play butterfly games and build butterflies. Students can type up what they know about butterflies. Upper Elementary Students can create presentations on the life cycle of a butterfly. Prezi Google slides iMovie	4/29/2019-5/20/2019
Media specialist	Students can use technology and books to research butterflies types. *opportunity to invite parents to read butterfly stories. https://www.youtube.com/watch?	4/29/2019-5/29/2019

	v=5-mYBWQ5qos	
Science/Math teachers	<p>Students should review the lifecycle of a butterfly and complete butterfly activities. Students can compare and contrast Monarch and Painted Lady butterflies.</p> <p>Ex. 3D Butterfly life cycle</p> <p>*opportunity to invite parents</p> <p>Lower elementary center puzzle.</p>	4/29/2019-5/20/2019 During science class
Reading teachers	<p>Students can read a story about butterflies. Older students can create a story after researching specific species of butterflies. Teachers may also elect to discuss the holocaust and reference the poem "The butterfly" and/or the book "I never saw another butterfly. Slideshare World War activities</p> <p>*opportunity to invite parents</p>	4/29/2019-5/20/2019 During reading class
Homeroom teachers	<p>Chrysalis should be hardened for at least two days. The lids with pupa attached may be removed from the cup and taped to the inside of the net. Refer to video. If teachers do not have nets they can attach them to the nets in ecology.</p>	5/06/2019-5/13/2019
Homeroom teachers	<p>Butterfly should emerge.</p>	5/13/2019-5/20/2019
Homeroom teachers	<p>This will be Butterfly/ Muffin with Moms event. Parents will be invited. Students will plant a butterfly garden. Students may create a butterfly feeder in class this day or butterfly cards for their moms. Please ensure teachers prepare an activity to complete with families. Have lots of STEAM activities planned for class time! Butterflies should be ready for released at 1:35 (the whole school).</p> <p>*All parents will be invited</p>	5/20/2019

Vocabulary for word walls

Abdomen: the hind part of the caterpillar and the butterfly. All insects possess an abdomen.

Antennae: found on the top of the butterfly's head; used for balance and to taste the air.

Butterfly: an insect with a slender body and four wings.

Caterpillar: the wormlike larva of a butterfly.

Chrysalis: an enclosed case that the caterpillar lives in.

Cocoon: similar to a chrysalis; third stage of the moth life cycle.

Compound eyes: thousands of tiny eyes that enable the butterfly to see in multiple directions, and recognize movement and color.

Diurnal: active during the day.

Egg: small, circular like; first stage of the butterfly life cycle.

Entomologist: a scientist that studies insect life.

Habitat: an environment that supports specie life.

Larva: another term for caterpillar; the second stage of the butterfly life cycle.

Metamorphosis: a changing process, or cycle; marked by changes in the body.

Molt: the caterpillar sheds its skin as it grows.

Moth: similar to a butterfly, but nocturnal; feathery like wings.

Nectar: juice found in flowers; food for the adult butterfly.

Proboscis: the butterfly tongue; functions like a straw.

Pupa: another name for chrysalis; third stage of the butterfly life cycle.

Thorax: the front part of the butterfly's body.

Vanessa Cardui: the formal name for the widespread, Painted Lady butterfly.

Resources

IMPORTANT LINKS: [Butterfly guide](#) [Important Butterfly instructions](#)
Staff [Flyer](#)

Classroom Project ideas (4/29 through 5/20)

1. [Butterfly information](#)
2. Museum collection of [butterflies](#).
3. Careers that deal with insects.
 - a. <http://www.aboutbioscience.org/careers/entomologist/>
 - b. <https://www.environmentalscience.org/entomology>
4. Optional competition (butterfly feeder/bulletin board)
 - a. [Recycled butterfly artwork challenge](#)
 - b. [Butterfly feeder](#)
 - c. STEM Butterfly [feeder](#)
5. Additional resources
 - a. [Resources](#)

Butterfly gardening Schedule for Gardening- 20th

- Teachers supervise and monitor students while students plant the garden flowers. Parents will be their to help.

Class	Time to Plant Flowers in the garden are below. Please share any scheduling conflicts.
Kindergarten planting inside gate	10:45 am
First grade planting inside gate	11:15 am
Second grade planting inside gate	11:45 am
Third grade outside gate	During 1st special 10:45-11:15 am
Fourth grade outside gate	11:15-11:45 am
Fifth grade Outside gate	11:45-12:15 am

Event breakdown

1. A signup genius will be completed to gather moms for the breakfast which will run from 8:15-9:15 am. Dads will prepare and clean up. Parents will be invited to prep the garden area from 9:15-10:00 am and monitoring and helping for the rest of the day.
2. Students will rotate through the garden at the designated times. Two classes will be outside at a time. Lower elementary will be planting fruits and vegetables in the row garden while upper elementary will be outside (same location from last year).
3. I was going to request CLF purchase seeds and cheap garden soil. We have some flowers that have been donated so just seeds.
4. I will request parents send in kid friendly gardening tools.
5. The families will gather outside at 1:35 for the release. This will be right after fifth grade lunch. We will have to block the parking lot off until 2:00pm.