

## Butterfly Necklace

Students gain an understanding of the life cycle of the painted lady butterfly. They observe the growth and development of a larva in the butterfly necklace, a miniature habitat in which the larva eats, grows, molts, and forms a chrysalis. Then, they transfer the chrysalis into a larger habitat in which the adult has room to emerge. The activity supports 3-dimensional learning and builds toward the following:

- NGSS Scientific and Engineering Practice: Asking Questions; Planning and Carrying Out Investigations
- NGSS Core Idea: Life Science 1: From Molecules to Organisms: Structures and Processes; Life Science 3: Heredity: Inheritance and Variation of Traits

### Materials Required

Painted Lady Butterfly Culture 33-Larvae/Food Set (144070)  
Drosophila Sorting Brush (173094)  
Small Cup (containing larva food)  
Cup Lid (with string attached)  
Paper Disk

### Activity Procedure

1. Get a small cup containing larva food.
2. With a sorting brush, move one larva from the Painted Lady Butterfly Culture 33-Larvae/Food Set into the small cup.
3. Cover the small cup with a paper disk. Place a lid with string attached over the paper disk and secure it to the cup. This creates a butterfly necklace.
4. Observe the larva eat, grow, and molt in the cup over the next 5 to 10 days. After this period of time, the larva will climb to the top of the cup and hang in a “J” shape in preparation for forming a chrysalis. Once this happens, leave the cup undisturbed until 2 days after the chrysalis forms, so it has time to harden.
5. Open the cup, remove the paper disk with the chrysalis attached, and tape the paper disk inside a butterfly cage. An adult butterfly should emerge in 7 to 10 days.

### Results/Summary

Once the adult emerges from the chrysalis, students will be able to observe its external anatomy and compare it with that of the larva and chrysalis. Visit our website for more information about the painted lady butterfly life cycle and about how to care for the adult.

### Additional Information

View more information, content links, and products related to this activity at [www.carolina.com/takeaways](http://www.carolina.com/takeaways).

