

## Instructional Recipe

# How Does a Butterfly Become a Butterfly?

First Grade, Science

### Step 1 – Ask

**Objectives:** Students will examine and describe the life cycle of a butterfly.

**Introduction:** Read aloud the following story:

**The big change.** By: Hinterberg, Helen J.; Allison, Diane. Ladybug, May95, Vol. 5 Issue 9, p14, 6p, 6c; Reading Level (Lexile): 570; (AN 9505094141)

The story's main character acts out the stages in the life cycle of a butterfly. Encourage students to act out the stages too. Write the names of the stages on the board.



"monarch butterfly: caterpillar larval stage." Online Photograph. Encyclopædia Britannica Online School Edition. 1 Aug. 2008 <<http://school.eb.com/elementary/art-55388>>.

Note: If at all possible, students should have an opportunity to experience a butterfly's life cycle live in the classroom. Support students' hands-on experiences with the readings/activities listed in this lesson.

**Ask:**

- ★ Where do butterflies come from?
- ★ What are the stages of a butterfly's life?

**Vocabulary:**

- ★ life cycle
- ★ egg
- ★ chrysalis (pupa)
- ★ caterpillar (larva)
- ★ butterfly

**Science TEKS:**

(1.7) **Science concepts.**  
(D) observe and record changes in the life cycle of organisms.

**Technology Application TEKS:**

(4) **Information acquisition.**  
(B) select appropriate strategies to navigate and access information for research and resource sharing.  
(8) **Solving problems.** (B) use electronic tools and research skills to build a knowledge base regarding a topic, task, or assignment.

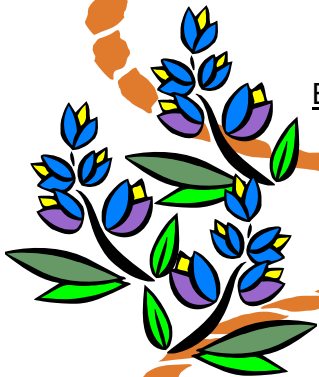
## Step 2 – Investigate

### K-12 Databases Resources:

Search Searchasaurus using the keyword *butterfly*.

- ★ [Two Insects Change and Grow!](#) Scholastic News -- Edition 2, Apr2004, Vol. 60 Issue 7, special section p3-6, 4p, 9c; Reading Level (Lexile): 430; (AN 12540886)
- ★ [Presto Change-O! A Butterfly Appears.](#) By: Dietel, Chris. Highlights for Children, Apr2004, Vol. 59 Issue 4, p8-9, 2p, 5c; Reading Level (Lexile): 650; (AN 12536713)
- ★ [Andrea's Butterflies.](#) By: Apolzon, Linda Rae. Hopscotch, Aug/Sep2006, Vol. 18 Issue 2, p38-40, 3p; Reading Level (Lexile): 640; (AN 21820068)
- ★ [A-Maze-ing Butterflies.](#) By: Belleranti, Guy. Hopscotch, Aug/Sep2006, Vol. 18 Issue 2, p37-41, 2p; Reading Level (Lexile): 650; (AN 21820067)
- ★ View images of each stage of a butterfly's life in the following article: "butterfly and moth." [Britannica Elementary Encyclopedia](#). 2008. Encyclopædia Britannica Online School Edition. 7 Oct. 2008 <<http://school.eb.com/elementary/article?articleId=352890>>.

Books: *The Very Hungry Caterpillar* by Eric Carle  
*A Butterfly Is Born* by Melvin Berger



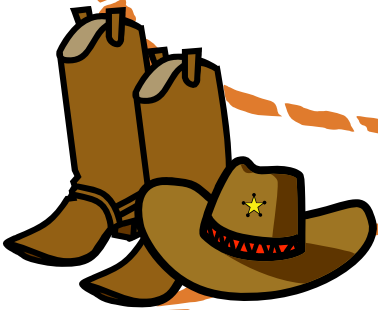
## Step 3 – Create

- ★ Students will take notes on a piece of paper folded into four sections. In their notes students should draw each of the four stages in a butterfly's life. Students should label each stage.


#### Step 4 – Discuss

- ★ Paper Plate Art—Students will fold a paper plate into four parts. In each of the part the student will use art materials to depict one of the four stages in the life cycle of a butterfly: egg, chrysalis, caterpillar, and butterfly. Students will label each stage.
- ★ Students will share their projects with one another in small groups.

🔗 Technology Link – Students may use a word processing program such as Microsoft Word to type and print the labels for each stage in the life cycle of a butterfly.



#### Step 5 – Reflect

Allow students to present their projects to the rest of the class. Use the following suggested rubric to assess the students' work. Make sure that the students are familiar with the rubric *before* they begin creating their project. They should refer to the rubric repeatedly to monitor their progress in creating their project.

🔗 Technology Link: You can also create your own rubric with your students at <http://rubistar.4teachers.org/index.php>.

## Rubric Life Cycle of a Butterfly Paper Plate Art

CATEGORY	4	3	2	1
<b>Labels</b>	All four life cycle stages are labeled correctly.	Three of the four life cycle stages are labeled correctly.	Two of the four life cycle stages are labeled correctly.	None of the four life cycle stages are labeled correctly.
<b>Required Elements</b>	The poster includes all required elements as well as additional information.	All required elements are included on the poster.	All but 1 of the required elements are included on the poster.	Several required elements were missing.
<b>Attractiveness</b>	The project is exceptionally attractive in terms of design, layout, and neatness.	The project is attractive in terms of design, layout and neatness.	The project is acceptably attractive though it may be a bit messy.	The project is distractingly messy or very poorly designed. It is not attractive.