

Magic of Metamorphosis		Kinder Life Systems	
Lesson Plan		Safety Notes	N/A
<p>Description Treat your students to a transformative experience with fun activities in the world of butterflies. In this lesson, students will examine the stages of the lifecycle noting the changes in development as it metamorphoses from a caterpillar to a beautiful butterfly.</p>			
<p>Materials</p> <ul style="list-style-type: none"> ● Egg carton ● Red and green paint or markers ● Scissors ● Pipe cleaners ● Multi coloured markers ● Coffee filter ● Paint brushes (if you're using paint) 			
<p>Science Background</p> <p>Did you know caterpillars can barely see at all? They have simple eyes called ocelli that only allows them to tell the difference between dark and light. Caterpillars can also feel using the hairs along their body, and antennae to smell for food. Once they are near food they use tiny taste cells in the mouth to identify if the food they are interested in is in fact good for them.</p> <p>The butterfly lifecycle includes 4 stages: egg, larva, pupa and adult butterfly. This process is called a metamorphosis. It is the process of changing or morphing into another shape. It begins when the female butterflies lays her eggs on plant leaves or stems. A caterpillar or larva comes out of the egg and eats until it grows almost 100 times bigger than when it came out of the egg. The caterpillar spends all of its time eating, digesting its food, and growing! Next, it gets ready to enter the next phase, the pupa. The caterpillar will climb high under branches and transform into a pupa - this is where all of the caterpillar parts turn into butterfly parts! Once ready and fully transformed, the pupa case splits and a beautiful butterfly appears.</p>			

Activity Procedure

In this activity, you will be making a caterpillar and a butterfly using craft materials found around your home.

The Caterpillar:

1. Cut an egg carton down the middle, colour or paint the first 5 sections green and the end section red. This will be the head.
2. Make two holes on the top of the red section and place each end of a pipe cleaner through, now you have antennae! You can curl the ends for extra fun.
3. Draw eyes or if you have them, add googly eyes.

The Butterfly:

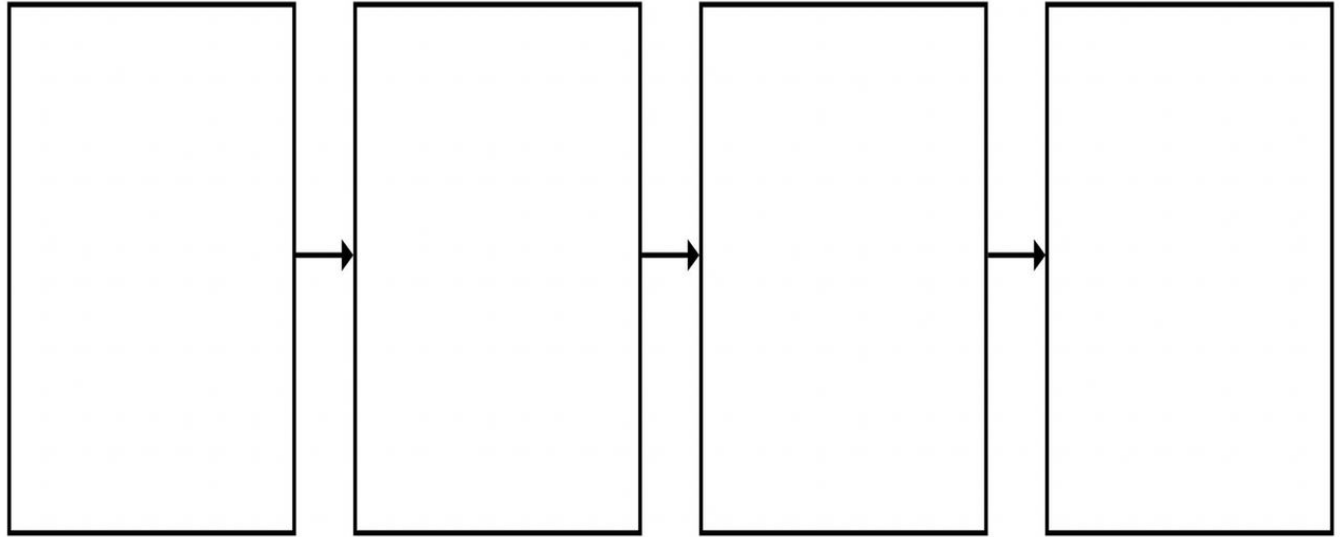
1. Colour the coffee filter with markers.
2. Bunch the filter in the middle and wrap a pipe cleaner around it.
3. Make sure you leave a little extra pipe cleaner to make two antennas!

Debrief

To learn more about the life-cycle of a butterfly, use the included handout to cut-out and order the phases of metamorphosis.

Handout

Cut each picture and place them in the correct life cycle order for a monarch butterfly.



chrysalis



egg



butterfly



caterpillar

Handout Answers

Cut each picture and place them in the correct life cycle order for a monarch butterfly.

