

# *Mr. G's Math Marvels*

**Lesson:** Hands-On Activity- Butterflies

**Facilitator:** Gary Walton, Mr. G.,  
BECON Studio Teacher

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## Lesson Plan

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**Grade Level:** 3

**Sunshine State Standard:** MA.C.1.2.1, MA.C.1.2.1, MA.C.2.2.2

**Objective:**

1. Students will be able to follow verbal descriptions to design half of a butterfly pattern
2. Students will be to create a mirror image (reflection) of the design on the opposite side of the pattern.
3. Students will be able to color the reflected designs the same on each half of the pattern.

**Activity:**

**Students:**

1. Place their name in the oval section that separates the two halves of the butterfly.
2. Choose one of the butterflies on the page to be designed.
3. Using a pencil, design patterns on the left side of the butterfly only.
4. Color the left side of the butterfly completely.
5. Design the right half of the butterfly so that it is a mirror image of the left side. (Students might want to lay the right wing over the left wing to help them create the reflection.)
6. Upon completing the design, color the right half the same as the left half.
7. Cut along the perimeter of the butterfly and the oval separating the wings.

8. Cut along the vertical line on each half of the butterfly. One vertical line is positioned from top towards the bottom and the other is positioned from the bottom towards the top.
9. With the colored butterfly facing you, rotate the right wing away from you into a 360° rotation and slide the slit into the other slit.

Students now have a butterfly ring which when placed on a finger can easily be fluttered. It is suggested that this activity be a math and literature activity. Students could name the type of butterfly, tell where it lives, and describe what it eats. Etc.

It would be nice to display the butterflies on a branch. As the students read their descriptive stories, the other students try to identify which butterfly belongs to whom.

**Materials Needed:** Butterfly pattern, pencil, scissors, and crayons or colored pencils. Do not use markers because they bleed and make a mess.