**Lesson - Symmetrical Bugs!**

We have been studying line, shape, and color. We are studying form and pattern. Symmetry is a type of pattern. Many classes are studying bugs in science. And fun fact, unless an insect has lost a leg or antenna, they’re symmetrical just like us! You can show the students pictures of bug like the one I’ve included or look up your own pictures. Discuss the symmetry and identify the line of symmetry down the middle of the insect’s body. Artists use symmetry when drawing and Mathematicians use symmetry when writing equations.

Have students fold their paper into four equal sections (a horizon line of symmetry, a vertical line of symmetry) so you end up with four rectangles.

Guide students in drawing a ladybug, a beetle, and a bumble bee, in each rectangle. The last rectangle is a bug from their own imagination using symmetry. Point out the symmetry you are using as you draw “One antenna on this side, another on this side.” Remember draw big!

Decorate the shell of the bugs symmetrically with different lines and shapes.

After students are done drawing in pencil, they may go over their lines with oil pastel and color them in. Encourage blending colors. Have fun!

**Objective**

To create a four insect drawings using and understanding symmetry as a pattern in art.

Write equations for bugs to represent symmetry in math.

**Learning Targets**

I can create four bugs using symmetry.

I can write four math sentences for each bug.

**Materials Needed**

8x11 white construction paper

26 oil pastels

Pencils

**Steps**

1. Review symmetry while folding paper.
2. Write name.
3. Using a pencil guide students in drawing a ladybug, beetle, bumblebee, free choice.
4. Color in with oil pastels.
5. Write four math sentences to represent the symmetry of each bug.
   1. 1 antena + 1 antena = 2 antenas
   2. 2 wings + 2 wings = 4 wings
   3. 3 legs + 3 legs = 6 wings
   4. 4 \_\_\_ (decoration on shell) + 4 \_\_\_\_ = 8 \_\_\_\_\_\_