

Dear Parents,

We will begin our next unit of study in math soon. The information below will serve as an overview of the unit as you work to support your child at home. If you have any questions, please feel free to contact me. I appreciate your on-going support.

Sincerely,

Your Child's Teacher

Unit Name: Line Symmetry

Common Core State Standards:

4.G.3 Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identifying line-symmetric figures and draw lines of symmetry.

Essential Vocabulary:

- symmetry
- line of symmetry
- regular polygons
- non-regular polygons
- midpoint
- vertex
- two-dimensional

Unit Overview:

In this unit, students will learn about symmetry and line of symmetry for the first time. Students have explored dividing shapes into equal pieces since 1st grade. Now students will build upon this concept with symmetry. This concept also will help students with the numeric form of symmetry in the commutative property.

Strategies/Skills:

Students will build on their understanding of geometric shapes and go further with identifying and measuring angles. Students will model mastery of this concept through the following ways:

- drawing
- identifying
- analyzing

Video Support:

Video support can be found on LearnZillion.

- <https://learnzillion.com/>
 - Identify line symmetry in irregular polygon
<https://learnzillion.com/lessons/3214-identify-line-symmetry-in-irregular-polygons>
 - Identify line symmetry in regular polygons
<https://learnzillion.com/lessons/3096-identify-line-symmetry-in-regular-polygons>
 - Identify line symmetry in a geometric figure
<https://learnzillion.com/lessons/3215-identify-line-symmetry-in-a-geometric-figure>

Additional Resources:

If you have limited/no internet access, please contact your child's teacher for hard copies of the resources listed in this document.

- NCDPI Unpacking Document: [4th Grade Unpacking Document](#)