

## Quarter 4 – Eighth Grade Math Syllabus

Our goals for fourth quarter are the Illinois Standard Goal 9 – Geometry, and the Illinois Standard Goal 8 - Algebra.

Students will be learning the following math topics:

### State Goal 9: Geometry

- understand important properties of symmetry
- recognize and describe symmetries of figures
- use tools to examine symmetries and transformations
- create figures with specified symmetries
- identify basic design elements to that can be used to replicate a given design
- perform symmetry transformations of figures, including reflections, translations, and rotations
- combine transformations and find a single transformation that will produce the same result

### State Goal 8: Algebra

- solve a basic number sentence using variables, given a value for the variable
- solve word problems involving unknown numbers
- create and extend patterns
- write an expression to represent unknown quantities
- simplify algebraic expressions
- evaluate or simplify algebraic expressions with one or more rational variables

Parents can do the following activities to improve their child's math skills:

- Ask your child to see their math binder, and take a look at what they are working on in class.
- Review worksheets from your child's binder and give them practice problems.
- Review your child's math vocabulary and quiz them on various terms.
- Organize a work or study space with supplies such as graph paper, pencils, calculator, ruler, and protractor.
- Encourage or host a study group by collaborating with other parents before tests and quizzes.
- Encourage your child to find a study buddy to work with.
- Have consistent high expectations for your child.

### Recommended Parent Resource Links

- [hotmath.com/parents.html](http://hotmath.com/parents.html)
- [www.homeworkspot.com/middle.math](http://www.homeworkspot.com/middle.math)
- [Mathforum.org/dr.math](http://Mathforum.org/dr.math)
- [Home.roadrunner.com/~gfstanley/parenthelp.htm](http://Home.roadrunner.com/~gfstanley/parenthelp.htm)

Parents are encouraged to help their child; however they are not expected to provide instruction. If you have any questions or concerns, please feel free to contact your child's math teacher.