

5th Grade Math

Dear Parents/Families,

In your student's math class, the upcoming course of study deals with Coordinate Geometry. Your child will focus on patterns and work with the coordinate system.

In fourth grade, students began using a 'rule' to generate a pattern. This directly leads to the ability to use a two-step 'rule' to develop coordinates.

By the end of this course of study, the following statements describe what your student will be able to do:

- I can use numerical rules and patterns to form ordered pairs. 5.OA.3
- I can understand how to graph ordered pairs on a coordinate plane. 5.G.1
- I can graph and interpret points in the first quadrant of a coordinate plane. 5.G.2
- I can write expressions I hear using mathematic symbols and the order of operations. 5.OA.2
- I can use parentheses and brackets in expressions. 5.OA.1

Next year in sixth grade, students will begin drawing shapes on a coordinate plane. They also do extensive work with expressions and equations.

Vocabulary terms important to this course of study:

Coordinate system, coordinate plane, first quadrant, points, lines, axis/axes, x-axis, y-axis, intersection of lines, origin, ordered pairs, coordinates, x-coordinate, y-coordinate

Additionally, the back of this paper has the IXL standards that can be practiced at home that correlate with this cluster.

If you have any questions about this new topic of study, please don't hesitate to contact a grade level teacher or our math coach. Thank you!

Sincerely,

Miss Owen, Mrs. Reilley and Mrs. Rogers

Coordinate Geometry

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IXL Standards for Coordinate Geometry Cluster

5.0A.3

- [Complete an input/output table \(Fifth grade - U.8\)](#)
- [Complete a table from a graph \(Fifth grade - U.9\)](#)
- [Graph a two-variable relationship \(Fifth grade - U.10\)](#)

5.G.1

- [Coordinate graphs review - whole numbers only \(Fifth grade - T.1\)](#)
- [Coordinate graphs with decimals and negative numbers \(Fifth grade - T.2\)](#)
- [Graph points on a coordinate plane \(Fifth grade - T.3\)](#)

5.G.2

- [Graph points on a coordinate plane \(Fifth grade - T.3\)](#)
- [Coordinate graphs as maps \(Fifth grade - T.4\)](#)
- [Relative coordinates: follow directions \(Fifth grade - T.5\)](#)

5.0A.1

- [Perform multiple operations with whole numbers \(Fifth grade - O.4\)](#)

5.0A.2

- [Write numerical expressions \(Fifth grade - O.3\)](#)