

Little Read 2013: *Rules* by Cynthia Lord

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| Title: That's the Rule |
| Content Area: Mathematics |
| NC SCOS or Common Core Objective(s): NC SCOS OBJECTIVE: 5.G.1. Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 in each line and a given point in the plane located by using an ordered pair of numbers, called coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis, and y- coordinate). |
| Rationale/Relationship to Text: In the book RULES, Catherine provides David with rules that continually remind him what is expected of him and what is appropriate and not appropriate for him to do. Through this lesson, students will be able to understand that there are rules that apply not only to society, but also to mathematics. The student will demonstrate an understanding of math coordinates through the “rules” established in math when graphing coordinates on a plane. <i>Rules in Math:</i> You have to walk across the lobby before you can go up or down the elevator. OR When graphing a point, the first number or coordinate (x) in the ordered pair (x,y) tells you how many spaces to go left or right. The second number (y) tells you how many spaces to go up or down. Start at 0. |
| Instructions/Procedures: Why do you think Cynthia Lord (the author) chose to name the book RULES? Give me some examples from the book of some rules that Catherine established for David other than the rules mentioned on the back of the book. What are some examples of rules that we must follow in society? Example (school, library, church,etc...) |

Why must we follow these rules? What happens if we break these rules?

Did you know that there are rules in Math?

(If many say yes, ask them to give you an example)

Examples to give to students:

When we see a + sign in a math problem we know that we have to add. What happens if instead of adding, I subtract? I will get the answer wrong because I did not follow that rule (A + sign, tells you to add)

Today, I am going to teach you how to graph coordinates on a plane. In order to graph coordinates on a plane we have to follow a rule.

Rule:

You have to walk across the lobby before you can go up or down the elevator.

AND

When graphing a point, the first number or coordinate (x) in the ordered pair (x,y) tells you how many spaces to go left or right. The second number (y) tells you how many spaces to go up or down. Start at 0.

As a class, practice graphing coordinates on a plane.

(Use worksheet *That's the Rule -- Coordinate Planes 1* first to give students practice graphing coordinates. Then students can do the activity below as an extension of the first activity.)

Ask the students to choose anything from the book *Rules* to draw on the coordinate plane. After drawing the picture, they are to find the coordinate points of the picture and write them down on a sheet of paper. They will then graph their own picture using their coordinates to make sure that they have the same outcome. Finally, the students will trade their coordinates with other students in the classroom and they will graph them on a plane.

Materials: RULES

Graphing paper

Writing materials

References:

Rules by Cynthia Lord.