



# Math EMPOWERS<sup>5</sup>

## Think Central Resources

### Go Math! Teacher Resource book, G5

This resource book includes black line masters for you to print and share. In addition to the usual suspects (hundreds grids, place value charts) there are also LOTS of number lines; **Decimal number lines for tenths and hundredths**, fraction number lines with percent benchmarks and more!

**Page TR121** offers a **Word Definition Map** which provides an opportunity for students to critically analyze a math vocabulary word. More word description templates can be found on **pages TR122 and TR123** and the **math vocabulary cards** begin on page TR127.

Looking for MORE vocabulary resources? Check out:

**Go Math! TG for Developing Math Vocabulary G3-6**



### The Problem of the Month

In order to increase rigor as we prepare students for the PARCC assessment, elementary teachers are supplementing our GO Math! curriculum with a few "Problems of the Month" from Inside Mathematics.

**Each problem has five levels of complexity.** Start your students at level A then challenge them to go as far as their understanding and skills will take them as they continue to work through the remaining levels. The purpose of this problem-solving activity is to allow your students to **persevere**, which is essential to the learning process.

As a facilitator of Problems of the Month, it is essential not to provide answers, but rather to guide student thinking by posing clarifying and reflective questions. Share strategies without emphasizing one solution method over another. Students should share complete solutions only at the conclusion of the activity. See the attached table for the Problems of the Month for grades K-5.

Visit <http://www.insidemathematics.org> for more information.

## Got Decimal Games?

### Decimal Addition War:

Gives students *INVESTIGATIONS* cards. Divide deck in half, have each opponent flip two cards, add & compare.

### Decimal Subtraction War:

Students **FLIP THREE** cards & **CHOOSE 2** to make the biggest difference.

0.09	0.91	0.34	0.66
0.10	0.90	0.35	0.65
0.11	0.89	0.36	0.64
0.12	0.88	0.37	0.63

### Decimal Darts:

**OUTSTANDING** web-based game that increases in difficulty as player proves understanding of decimal place value on a vertical number line. **A MUST DO !!**

## Math Poster Project

Do you remember the *INVESTIGATIONS* poster fifth graders created to **compare two different fractions** by showing them visually (fraction bars, circles, shaded hundreds grids, number lines) and as equivalent fractions? Consider providing a basket of tools (fraction circles/squares, rulers, blank decimal grids, calculators) and encouraging students to work on their own posters with titles like:

" $7/8 > 5/6$  and here is the **proof!**"

".597 < .7 and this is why"

**VARIATION:**

Have students compare two different decimals, with grids, money, fractions and number lines. **THEN** have students **MODEL** adding and multiplying them. Compare the difference between the **visual** addition & multiplication as well as the algorithms. Students may also write their own story problems for the two computations they solve and depict.