

## Introduction: Interactive Math Glossary

Welcome to the Gateway Mathematics Vocabulary Resource. The intent of this resource is to provide teachers with an opportunity to investigate vocabulary new to each grade level as a result of changes in the recently adopted Texas Essential Knowledge and Skills standards (TEKS).

The framework for demonstrating the terms in this resource is the Frayer Model. The Frayer Model is a four-quadrant graphic organizer that is used to help students communicate and refine their understanding of new vocabulary. The term being defined is written in the oval in the middle. The four prompts in the quadrants include a definition, characteristics, examples, and non-examples. The examples and non-examples provide assistance in clarifying potentially confusing connections with related content. Examples and non-examples may be visual, tabular, graphical, or verbal. For this resource, an opportunity to interact with the concept is included in the examples quadrant. You will notice that only three of the four quadrants are complete. After reading the characteristics and analyzing the examples and non-examples, we encourage you to write your own definition for each concept or term.

While three quadrants have been provided in this resource, in the classroom, it is intended for students to generate the content of each quadrant themselves when using a Frayer Model.

You may want to use the Gateway Mathematics Vocabulary Resource in team planning meetings. Your team may want to explore some of the interactive examples as a possible way to introduce new vocabulary to students. The team may also want to use the non-examples as a starting point for brainstorming students' misconceptions related to the concept.

We hope that you will find this resource useful in enhancing your understanding and your students' understanding of vocabulary in mathematics.