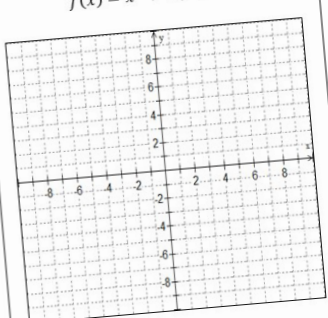


Inverse Functions

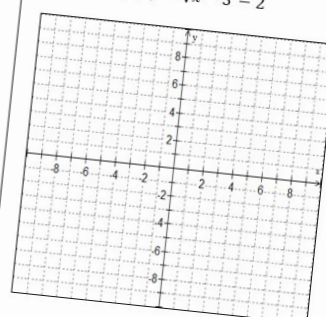
The Rule of Four



G.N.A.W. on Inverse Functions Name _____

Graph	Numerically																																												
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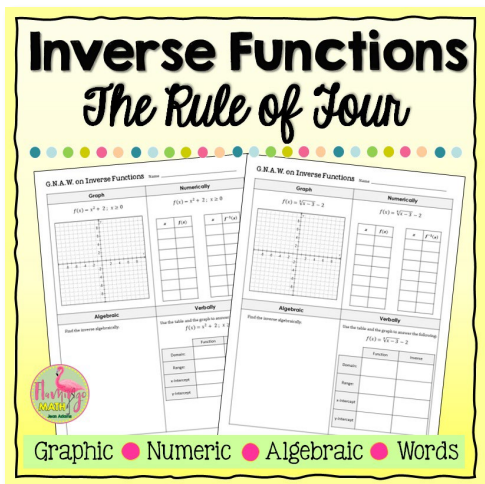
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Graphic ● Numeric ● Algebraic ● Words



Inverse Functions GNAW Activity



KEY CONCEPTS/TOPICS:

- ★ Graph and restrict domain of a function to be invertible.
- ★ consider a table of values for a one-to-one function and its inverse.
- ★ Find the inverse of the one-to-one function
- ★ Analyze characteristics of a function and its inverse.

Product Overview

G.N.A.W. on Inverse Functions

This resource is designed to help your students gain proficiency in their ability to use the Rule of Four approach of connections among the multiple representations of functions and their inverses.

In this G.N.A.W. Activity your **Algebra 2** or **PreCalculus** students will explore problems that can be represented *graphically, numerically, analytically, and verbally*. There are two different versions.

STANDARDS ALIGNMENT:

CCSS: HSF.BF.B.4.A; HSF.BF.B.4.B; HSF.BF.B.4.C; HSF.BF.B.4.D

TEKS: A2.1.E, A2.1G, A2.2B, A2.2D

GNAW on Inverse Functions

Objective: In this G.N.A.W. Activity your **Algebra 2** or **PreCalculus** students will explore problems that can be represented *graphically, numerically, analytically, and verbally*. They will make connections among these representations. There are four different versions.

Preparation: Copy a form for each student. There are two different forms from which to choose.

Activity: Students work cooperatively to solve their individual prompt to complete the activity. You may assign one form to a group or give partners a different form to complete for accountability.

What is GNAW and the Rule of Four?

The “Rule of Four” or G.N.A.W. Approach is a method of thinking about mathematics in order to make connections through multiple representations of our mathematical thinking. Students should be able to represent mathematics in graphic, numeric, algebraic, and verbal formats. G.N.A.W.

Why should you use the GNAW approach?

By implementing this process into your classes, students will gain a deeper understanding of the mathematics. The Rule of Four helps students connect and validate concepts and techniques.

How can you use the Rule of Four?

Teachers can model this approach during instructional time to set the “tone” for expected thinking and reasoning. Then, give your students many chances to practice the techniques. It is also important that students learn to make connections between the different representations.

[Please visit my store](#) for more
engaging task card activities.

