## I. Curriculum Area

Mathematics

#### II. Courses

5130 Secondary Math I

5131 Secondary Math I Honors

5132 Secondary Math I Honors - Accelerated

### III. Goal Summary Statement

Students will demonstrate learning from a pre to a post assessment in a chosen domain using at least one of the eight Mathematical Practice Standards

## IV. Full Goal Description

The teacher will identify a low scoring domain from pre-assessment data. Looking at the standards within the domain, the teacher will incorporate good teaching strategies to teach, reteach and extend learning throughout the year.

Student growth will be measured by using a pre and post assessment with equal rigor and Depth of Knowledge levels.

Teachers must incorporate one or more of the 8 Mathematical Practice Standards as it applies to the chosen domain.

## V. Connection to DESK Standards

\*Teachers will select a domain from the DESK Standards.

Number and Quantity

Algebra

- A. Seeing Structure in Expression
- B. Creating Equations
- C. Reasoning with Equations and Inequalities

#### Functions

- A. Interpreting Linear and Exponential Functions
- B. Building Linear or Exponential Functions
- C. Linear and Exponential

## Geometry

- A. Congruence
- B. Expressing Geometric Properties with Equations

Statistics and Probability

A. Interpreting Categorical and Quantitative Data

*In the action plan, teachers will indicate how the Mathematical Practice Standards will be used to facilitate the goal.		
Step 1	Step 2	Step 3
Choose a Domain	Choose a Fundamental Concept from	Choose one or more Mathematical
	DESK	Practice Standards
Examples:		
Domain Example	Fundamental Concept from DESK	Mathematical Practice Standard
Statistics and Probability –	1. Represent data with plots on the	3. Construct viable arguments and
Interpreting Categorical and	real number line (dot plots,	critique the reasoning of others.
Quantitative Data	histograms, and box plots).	6. Attend to precision.
Functions – Building Linear or	2.Identify the effect on the graph of	2. Reason abstractly and quantitively.
Exponential Functions	replacing $f(x)$ by $f(x) + k$ , for	7. Look for and make use of
	specific values of $k$ (both positive	structure.
	and negative); find the value of $k$	
	given the graphs.	
Geometry - Congruence	6. Use geometric descriptions of rigid	4. Model with mathematics.
	motions to transform figures and to	8. Look for and express regularity in
	predict the effect of a given rigid	repeated reasoning.
	motion on a given figure; given two	
	figures, use the definition of	
	congruence in terms of rigid motions	
	to decide whether they are	
	congruent.	

# VI. Assessment Tool/Rubric/Evidence

Teachers will use or create quality pre and post assessment to show evidence of student growth. Questions in the assessments should isolate and focus on each fundamental mathematical standard listed in the action plan with equal rigor and Depth of Knowledge levels. Teachers are highly encouraged to use traditional assessment methods coupled with a project-based assessment (rubric, a collection of student artifacts, portfolios, etc.) so that all aspects of student growth can be captured.