

PHOENIX

FOCUS OF IMPROVEMENT

Identify action area	Broad Outcome	Desired Student Products and Performance	Required Student Knowledge, Skills, and Dispositions
What is the area of focus?	What do you hope to improve?	What specifically will be evidence of improvement in student learning? When will this be assessed?	What will the learning look like/ sound like/ feel like?
Numeracy: Communication of Mathematical Thinking Through All Grades and Classrooms	Students will improve their ability to communicate mathematically (orally and written) and represent their mathematical thinking (concretely, pictorially & symbolically).	<ul style="list-style-type: none"> •Problem Solving tasks contained in the SJASD learning hub will be completed by students as a common reference point and analyzed by teaching staff to determine next steps at PLC meetings. •Students will be able to express and use a variety of problem-solving strategies with proficiency. •Students will be willing to begin a task even if there is uncertainty about the cognitive path to take for the solution (<i>enter the learning pit</i>). •Students will demonstrate a greater ability to represent their thinking during partner/group work and during whole class discussions as supported by evidence (math talks, counting collections, vertical learning spaces) collected as baseline in September/October vs samples collected in November and March. •All students will advance 1 or 2 levels on the communication and reasoning section of the problem solving rubric by the T3 report card. 	Students need... <ul style="list-style-type: none"> •To understand that there are a variety of ways to explain and represent mathematical ideas and that it is important to be able to do so clearly. •To work collaboratively with their peers to negotiate and/or appreciate the thinking of others in order to solidify and deepen their own understandings. •to communicate their thinking and reasoning verbally, through the use of models and diagrams as well as use symbolic representations. •use the 3 read strategy to help students focus on a problem solving task •Use the 5 practices to support problem solving work