Vision and Mission of LoveWorks Math Program

VISION

We envision our department as a community of learners where all members: students, staff and parents, are actively engaged in the educational process. Staff and parents are focused on empowering all students with the mathematical proficiency to recognize and utilize mathematical concepts in their everyday lives, as well as further their educational goals. Students will develop important decision-making, critical thinking, and communication skills, including the ability to confidently persevere through challenging mathematical tasks. All stake-holders will share accountability for creating a positive and supportive educational environment, and for achieving successful student outcomes.

MISSION

The Mission of the LoveWorks math program is to provide high quality and challenging teaching practices to ensure our students have the best math education possible.

Teachers will:

1. Establish mathematics goals to focus learning
2. Communicate with parents in order to increase home support
3. Implement tasks that promote reasoning and problem solving
4. Use and connect mathematical representations
5. Facilitate meaningful mathematical discourse
6. Pose purposeful questions
7. Build procedural fluency for conceptual understanding
8. Support productive struggle in learning mathematics
9. Elicit and use evidence of student thinking (assessment)

Because of these practices students will:

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critiques the reasoning of others
4. Model with mathematics

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5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

In order to reinforce these practices parents will:

1. Monitor homework assigned by teacher
2. Communicate with teacher if child struggles with homework
3. Attend parent math nights to better understand student homework