



## Austintown Local Schools Mathematics Philosophy



All students in Austintown Local Schools will be provided with high-quality, engaging mathematics, where learning is an active process and learners are actively constructing mental models and theories of the world around them. The intent is to ensure that students understand value and use mathematics effectively in everyday life.

The curriculum and instruction is mathematically rich and developmentally appropriate. Students have opportunities to learn important mathematical concepts and procedures with understanding and accommodations for those who need it.

An appropriate use of current technologies is imperative for developing 21<sup>st</sup> Century skills. Use of manipulatives is an essential component of the learning environment in order to provide students with experience to move through the natural progression of concrete to pictorial to abstract representations and thoughts.

Through a focus on reasoning about number relationships, students will develop fluency in math facts.

Students actively engage in inquiry based mathematical tasks determined by grade level academic content standards. Students are encouraged to be flexible and resourceful problem solvers in various settings. They are able to approach and solve a problem from different mathematical perspectives communicating and representing their ideas and results in multiple ways.

Adapted from *National Council of Teachers* “Principals and Standards for School Mathematics”

Our Mathematic Philosophy was written by the Core Curriculum Mathematics Committee with input from teachers in 2008.

Vincent Colaluca  
Janet Dinello  
Tom Reardon  
Kristen Hershey

Heather Wukelich  
Shawne Gerst  
Carol Kuchta  
Chris Bero

Jo Taylor  
Shari Lewis