

## Mathematics Disciplinary Outcomes

*Avon, CT*

### Based on Standards for Mathematical Practice:

- Based on an understanding of *any* problem, initiate a plan, execute it and evaluate the reasonableness of the solution.
- Examine alternate methods to accurately and efficiently solve problems.
- Use appropriate tools strategically to deepen understanding of mathematical concepts.
- Articulate how mathematical concepts relate to one another in the context of a problem or in the theoretical sense.

### Domains of Mathematics:

- Describe, classify and compare objects/ numbers and sets of objects/ numbers
- Use descriptions to clarify and/or solve problems
- Compose and decompose numbers to establish relationships and perform operations.
- Move from one representation to another without changing the quantity
- Perform operations within the real and complex number system
- Describe and/or solve problems using algebraic expressions, equations, inequalities, and functions
- Use functions or equations to model relationships among quantities
- Classify, interpret, and compare functions or equations
- Represent, summarize, and interpret data to clarify and solve problems or to make informed decisions
- Apply appropriate formulas or theorems to determine the unknown
- Describe, classify, and compare objects by their attributes
- Compose / decompose shapes or attributes to form new shapes
- Infer properties of an object from its shape, location and measurements
- Infer the relationship between objects based on their shape, location, and measurements