

OVERARCHING ESSENTIAL QUESTIONS

- I. How is mathematics used to quantify and compare situations, events and phenomena?
- II. What are the mathematical attributes of objects or processes and how are they measured or calculated?
- III. How are spatial relationships, including shape and dimension, used to draw, construct, model and represent real situations or solve problems?
- IV. How is mathematics used to measure, model and calculate change?
- V. What are the patterns in the information we collect and how are they useful?
- VI. How can mathematics be used to provide models that help us interpret data and make predictions?
- VII. In what ways can data be expressed so that its accurate meaning is concisely presented to a specific audience?
- VIII. How do the graphs of mathematical models and data help us better understand the world in which we live?
- IX. What do effective problem solvers do, and what do they do when they get stuck?