

ALIGNMENT TO NATIONAL STANDARDS

SCIENCE

	6	7	8
Science as Inquiry			
Develop abilities necessary to do scientific inquiry.	✓	✓	✓
Develop understanding about scientific inquiry.	✓	✓	✓
Develop understanding of objects in the sky.	✓	✓	✓
Science and Technology			
Develop abilities to do technological design.	✓	✓	✓
Develop understanding about science and technology.	✓	✓	✓
History of Nature and Science			
Develop understanding of science as a human endeavor.	✓	✓	✓
Physical Science			
Motions and forces	✓		✓
Transfer of energy			✓

TECHNOLOGY & ENGINEERING

Creativity and Innovation			
Apply existing knowledge to generate new ideas, products or processes.	✓	✓	✓
Create original works as a means of personal or group expression.	✓	✓	✓
Use models and simulations to explore complex systems and issues.	✓	✓	✓
Research and Information Fluency			
Locate, organize, analyze, evaluate, synthesize and ethically use information from a variety of sources and media.			✓
Evaluate and select information sources and digital tools based on the appropriateness to specific tasks.			✓
Critical Thinking, Problem Solving, and Decision Making			
Identify and define authentic problems and significant questions for investigation.	✓	✓	✓
Digital Citizenship			
Exhibit a positive attitude toward using technology that supports collaboration, learning and productivity.	✓	✓	✓

MATHEMATICS

Numbers and Operations

Compute fluently and make reasonable estimates.

6 7 8

✓ ✓ ✓

Measurement

Understand measureable attributes of objects and the units, systems, and processes of measurement.

✓ ✓ ✓

Understand, select and use units of appropriate size and type to measure angles, perimeter, area, surface area, mass, temperature and volume.

✓ ✓ ✓

Solve problems involving scale factors, using ratio and proportion.

✓ ✓ ✓

Data Analysis and Probability

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.

✓ ✓ ✓

Select and use appropriate statistical methods to analyze data.

✓ ✓ ✓

Develop and evaluate inferences and predictions that are based on data.

✓ ✓ ✓

Problem Solving

Build new mathematical knowledge through problem solving.

✓ ✓ ✓

Solve problems that arise in mathematical and in other contexts.

✓ ✓ ✓

Apply and adapt a variety of appropriate strategies to solve problems.

✓ ✓ ✓

Algebra

Use mathematical models to represent and understand quantitative relationships.

✓ ✓ ✓

Analyze change in various contexts.

✓ ✓ ✓

Communication

Communicate mathematical thinking coherently and clearly to peers, teachers and others.

✓ ✓ ✓

Analyze and evaluate the mathematical thinking and strategies of others.

✓ ✓ ✓

Use the language of mathematics to express mathematical ideas precisely.

✓ ✓ ✓