

MATH

Please note: Estimation and problem solving strategies should be included in number sense/computation, measurement and algebra standards.

NUMBER SENSE/COMPUTATION

Read, Write, and Represent Numbers

_____ Translate between decimals, fractions and percents *MA5-01*

Order and Compare Numbers

_____ Whole numbers up to 1,000,000 *MA5-02*

_____ Decimals through hundredths *MA5-03*

_____ Fractions with like and unlike denominators *MA5-04*

Number Operations

_____ Solve problems, word problems, and number sentences *MA5-05*

- whole number addition, subtraction, multiplication, division

- decimal addition and subtraction through hundredths

MEASUREMENT

Use Measurement Tools and Units

_____ Length to nearest $\frac{1}{4}$ in or mm *MA5-06*

_____ Mass/weight *MA5-07*

_____ Capacity *MA5-08*

_____ Angles *MA5-09*

Solve Problems Involving Area, Perimeter, and Volume

_____ Triangle *MA5-10*

_____ Rectangle *MA5-11*

_____ Irregular shape *MA5-12*

_____ Right rectangular prism *MA5-13*

Measurement Conversions

_____ Perform conversions within the same measurement system

including compound units *MA5-14*

- length

- weight/mass

- time

ALGEBRA

Patterns

_____ Construct and identify a rule that can generate terms in a given

sequence *MA5-15*

Write, Simplify and Solve Expressions and Equations

_____ Construct and solve simple number sentences (equalities and

inequalities) or expressions using variables *MA5-16*

_____ Evaluate algebraic expressions *MA5-17*

GEOMETRY

Coordinate Geometry

_____ Graph, locate, identify points and describe paths using ordered

pairs (first quadrant) *MA5-18*

Identify and Sketch Geometric Shapes

_____ Circles including radius and diameter *MA5-19*

_____ Intersecting lines *MA5-20*

_____ Acute, obtuse and right angles *MA5-21*

Congruence and Similarity

_____ Identify relationships between corresponding parts of similar

shapes *MA5-22*

DATA ANALYSIS AND PROBABILITY

Use Statistics to Solve Problems

_____ Mode *MA5-23*

_____ Range *MA5-24*

_____ Median *MA5-25*

_____ Mean *MA5-26*

Use Probability to Solve Problems

_____ Simple event *MA5-27*

_____ Fundamental counting principle *MA5-28*

SCIENCE

INQUIRY

Scientific Inquiry

_____ Collect data for investigations using scientific process skills

including observing, estimating, and measuring. *Sc5-01*

Technological Design

_____ Identify a design problem and propose possible solutions. *Sc5-02*

LIFE SCIENCE

Comparing Living Things

_____ Describe the way scientists classify living things. *Sc5-03*

Reproduction and Change

_____ Explain how traits are passed on through genes and

chromosomes. *Sc5-04*

Adaptations

_____ Describe how organisms become adapted to their

environment. *Sc5-05*

Ecology

_____ Identify natural cycles in an ecosystem (e.g. carbon dioxide,

nitrogen, water cycles). *Sc5-06*

HUMAN BODY

Respiration and Excretion

_____ Describe how the body takes in and uses oxygen. *Sc5-07*

Living A Healthy Life

_____ Describe how communicable diseases are spread, how to

defend against them, and how to treat them. *Sc5-08*

PHYSICAL SCIENCE

Classifying Matter

_____ Define the terms "element" and "atom" and describe how

elements are classified on the periodic table. *Sc5-09*

Forms of Energy

_____ Identify how sound energy moves and how it is used. *Sc5-10*

Electrical Energy

_____ Identify how electrons cause objects to attract and repel and

how they flow in a circuit. *Sc5-11*

Investigating Motion

_____ Identify terms to measure motion (speed and velocity). *Sc5-12*

EARTH SCIENCE

The Changing Earth

_____ Identify the Earth's layers. *Sc5-13*

The Earth's Resources

_____ Compare and contrast renewable and nonrenewable

resources. *Sc5-14*

Climate

_____ Describe how land and water affect climate. *Sc5-15*

Astronomy

_____ Describe how scientists use instruments to study planets and

stars. *Sc5-16*

CONNECTIONS

Science Practices

_____ Demonstrate ways to avoid injury when conducting science

activities (e.g. wearing goggles, fire extinguisher use). *Sc5-17*

S/T/S (Science, Technology and Society)

_____ Explain how technology is used in science for a variety of

purposes (e.g. sample collection, storage and treatment,

measurement). *Sc5-18*