

Science Olympiad: Division B Events

QCC Listed By Event

Event Name With QCC Content Standards

Bottle Rocket

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understand & applies laboratory safety rules and practices
- 6.9.4 States and describes Newton's three laws of motion.
- 6.9.5 Gives examples of the effects of gravity.
- 6.10.1 Explains why objects thrown or shot follow a curved path.
- 6.10.4 Analyzes action and reaction forces.
- 6.11.0 Describes how particles of a fluid exert pressure.
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understand and applies laboratory safety rules and practices.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.

Bridge Building

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices
- 6.3.0 Defines and identifies standards of measurement
- 6.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 6.9.5 Gives examples of the effects of gravity.
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understand and applies laboratory safety rules and practices.
- 7.3.0 Defines and identifies standards of measurement.
- 7.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.3.0 Defines and identifies standards of measurement.
- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.

Can't Judge a Powder by its Color

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices
- 6.5.7 Recognizes and writes common chemical symbols, chemical formulas and chemical equations.
- 6.7.0 Defines acid and base
- 6.7.1 Describes the characteristic properties of acids and bases.
- 6.7.2 Lists the names, formulas, and uses of some common acids and bases.
- 6.7.3 Explain what a salt is and how salts form.
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying,

and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.

- 7.2.0 Understands and applies laboratory safety rules and practices.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.

Dynamic Planet

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.5.1 Identifies ways human beings cause and can correct pollution of water bodies, the atmosphere (acid rain, ozone layer, and green house effect) and the land (soil pollution and chemical/nuclear waste).
- 8.5.2 Examines the effects pollution from cities have on weather and the effect of burning fuels on the atmosphere, melting of polar ice caps and predicting earthquakes
- 8.9.0 Recognizes that constructive and destructive Earth forces (e.g., continental drift, earthquakes, volcanoes, plate tectonics, weathering and erosion) change the Earth's surface.
- 8.10.0 Recognizes major symbols, series, scales and colors conventionally used to represent features on topographic maps and various Earth models.
- 8.16.0 Describes the water cycle and its relationship to the movement of surface and subsurface water.
- 8.16.1 Identifies the water cycle.
- 8.16.2 Describes the formation of a river system.
- 8.16.3 Describes the distribution and quality of fresh water on the Earth.
- 8.19.0 Recognizes and investigates weather phenomena and their effect on the Earth's surface.
- 8.19.1 Interprets weather maps and make forecasts.
- 8.20.0 Describes atmospheric factors which interact to cause weather: heat energy, air pressure, winds and
- 8.20.1 Identifies the three basic types of clouds and their formation.
- 8.20.2 Compares the four major types of air masses and how they create fronts that affect weather patterns.
- 8.20.3 Identifies factors that determine climate.
- 8.20.4 Differentiates between the climate zones of the Earth.

Experimental Design

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understands and applies laboratory safety rules and practices.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.

Forestry

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.13.0 Examines the method scientists use to classify living things for the purpose of communication and study.
- 7.13.1 Examines how living organisms can be classified according to similarities in structure, behavior, food needs and

chemical make-up into kingdoms, phyla, classes, orders, families, genera, and species.

- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.

Fossils

- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.8.0 Differentiates among rocks based on origins (igneous, metamorphic and sedimentary) and mineral content.

Meteorology

- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.5.2 Examines the effects pollution from cities have on weather and the effect of burning fuels on the atmosphere, melting of polar ice caps and predicting earthquakes.
- 8.9.0 Recognizes that constructive and destructive Earth forces (e.g., continental drift, earthquakes, volcanoes, plate tectonics, weathering and erosion) change the Earth's surface.
- 8.10.0 Recognizes major symbols, series, scales and colors conventionally used to represent features on topographic maps and various models.
- 8.19.0 Recognizes and investigates weather phenomena and their effect on the Earth's surface.
- 8.19.1 Interprets weather maps and make forecasts.
- 8.20.0 Describes atmospheric factors which interact to cause weather: heat energy, air pressure, winds and moisture.
- 8.20.1 Identifies the three basic types of clouds and their formation.
- 8.20.2 Compares the four major types of air masses and how they create fronts that affect weather patterns.
- 8.20.3 Identifies factors that determine climate.
- 8.20.4 Differentiates between the climate zones of the Earth.

Metric Estimation

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.3.0 Defines and identifies standards of measurement.
- 6.3.1 Names the prefixes used in the SI system.
- 6.3.2 Identifies SI units and symbols for length, volume, mass, density, time and temperature.
- 6.3.3 Converts measurements among related SI units.
- 6.3.4 Uses appropriate tools for determining mass, volume, temperature, density and length.
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
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- 8.3.3 Converts measurements among related SI units.
- 8.3.4 Uses appropriate tools for determining mass, volume, temperature, density and length.

Mission Possible

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices.

- 6.8.0 Describes how energy and work are related.
- 6.8.1 Distinguishes between kinetic and potential energy.
- 6.8.2 Describes different forms of energy (e.g. mechanical, electrical, radiant, nuclear, etc.).
- 6.9.3 Recognizes different examples of forces.
- 6.9.4 States and describes Newton's three laws of motion.
- 6.9.5 Gives examples of the effects of gravity.
- 6.9.6 Relates gravitational force to mass and distance.
- 6.10.1 Explains why objects thrown or shot follow a curved path.
- 6.10.4 Analyzes action and reaction forces.
- 6.12.0 Explains how machines make work easier.
- 6.12.1 Describes six types of simple machines.
- 6.12.2 Recognizes the simple machines that make up a compound machine.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understands and applies laboratory safety rules and practices.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.

Naked Egg Drop

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.8.1 Distinguishes between kinetic and potential energy.
- 6.9.5 Gives examples of the effects of gravity.
- 6.10.4 Analyzes action and reaction forces.
- 7.1.0 Uses processes skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.

Picture This

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables, recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables, recording, analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.

Process Skills For Life-Science

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices.
- 6.3.1 Names the prefixes used in the SI system.
- 6.3.2 Identifies SI units and symbols for length, volume, mass, density, time and temperature.
- 6.3.4 Uses appropriate tools for determining mass, volume, temperature, density and length.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understands and applies laboratory safety rules and practices.
- 7.3.1 Names the prefixes used in the SI system.
- 7.3.2 Identifies SI units and symbols for length, volume, mass, density, time and temperature.
- 7.3.4 Uses appropriate tools for determining mass, volume, temperature, density, and length.

- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.3.4 Uses appropriate tools for determining mass, volume, temperature, density and length.

Reach for the Stars

- 6.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
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- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.21.0 Describes the components of the solar system.
 - 8.21.1 Describes features, characteristics and motions of the planets.
 - 8.21.2 Compares and contrasts asteroids, comets and meteorites and explain their origins.
- 8.22.0 Identifies and describes stars and star systems.
 - 8.22.1 Describes major galaxy types.
 - 8.22.2 Describes the life cycle of a star.
 - 8.22.3 Interprets a Hertzsprung-Russell Diagram
- 8.26.0 Describes the relationships of the motions between the sun, moon and Earth.
 - 8.26.1 Describes how seasons are caused by the Earth's revolution.
 - 8.26.2 Defines the phases of the moon.
 - 8.26.3 Compares and contrasts a lunar and solar eclipse.
 - 8.26.4 Discusses the effect of the sun and moon on tides.

Road Scholar

- 6.3.0 Defines and identifies standards of measurement.
 - 6.3.1 Names the prefixes used in the SI system.
 - 6.3.2 Identifies SI units and symbols for length, volume, mass, density, time and temperature.
 - 6.3.3 Converts measurements among related SI units.
- 7.3.0 Defines and identifies stands of measurement.
 - 7.3.1 Names the prefixes used in the SI system.
 - 7.3.2 Identifies SI units and symbols for length, volume, mass, density, time and temperature.
 - 7.3.3 Converts measurements among related SI units.
- 8.3.0 Defines and identifies standards of measurement.
 - 8.3.1 Names the prefixes used in the SI system.
 - 8.3.2 Identifies SI units and symbols for length, volume, mass, density, time, and temperature.
 - 8.3.3 Converts measurements among related SI units.
- 8.10.0 Recognizes major symbols, series, scales and colors conventionally used to represent features on topographic maps and various Earth models.
- 8.11.0 Examines how land formations influence development of an area.

Robo-Billards

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices.
- 6.8.2 Describes different forms of energy (e.g. Mechanical, electrical, radiant, nuclear, etc..)
- 6.9.3 Recognizes different examples of forces.
- 6.9.5 Gives examples of the effects of gravity.
- 6.10.4 Analyzes action and reaction forces.
- 6.12.0 Explains how machines make work easier.
 - 6.12.2 Recognizes the simple machines that make up a compound machine.

Science Crime Busters

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices.
- 6.5.7 Recognizes and writes common chemical symbols, chemical formulas and chemical equations.
- 6.7.0 Defines acid and base.
 - 6.7.1 Describes the characteristic properties of acids and bases.
 - 6.7.2 Lists the names, formulas, and uses of some common acids and bases.

- 6.7.3 Explain what a salt is and how salts form.
- 6.21.0 Describes the properties of magnets.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understands and applies laboratory safety rules and practices.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.

Science of Fitness

- 6.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 7.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 7.7.0 Identifies organs and their function in these systems: circulatory, respiratory, reproductive, skeletal, digestive, nervous, endocrine, lymphatic, and skin.
- 7.7.1 Explains and describes the features and functions of the various organ systems.
- 7.7.2 Describes and investigates body functions and make inferences regarding these functions, (e.g., heartbeat, sensory perception, lung volume, and reaction time).
- 7.9.0 Examines how health care technology has improved the quality of life, (e.g. computerized tomography (C.T.), artificial organs, bionics, Magnetic Resonance Imaging (MRI), and ultrasound) (STS).
- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.

Storm The Castle

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices.
- 6.3.0 Defines and Identifies standards of measurement.
- 6.3.2 Identifies SI units and symbols for length, volume, mass, density, time and temperature.
- 6.3.4 Uses appropriate tools for determining mass, volume, temperature, density and length.
- 6.8.1 Distinguishes between kinetic and potential energy.
- 6.9.3 Recognizes different examples of forces.
- 6.9.6 Relates gravitational force to mass and distance.
- 6.9.7 Distinguishes between mass and weight.
- 6.10.1 Explains why objects thrown or shot follow a curved path.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understands and applies laboratory safety rules and practices.
- 7.3.0 Defines and identifies standards of measurement.
- 7.3.2 Identifies SI units and symbols for length, volume, mass, density, time and temperature.
- 7.3.4 Uses appropriate tools for determining mass, volume, temperature, density, and length.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.3.2 Identifies SI units and symbols for length, volume, mass, density, time, and temperature.

Water Quality

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices.
- 6.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 6.5.6 Recognizes and writes common chemical symbols, chemical formulas and chemical equations.
- 6.6.1 Describes how the molecular motion changes in each phase of matter.
- 6.6.2 Discusses the nature of freezing, condensing, boiling, and evaporation.
- 6.7.0 Defines acid and base.
- 6.7.1 Describes the characteristic properties of acids and bases.
- 6.7.2 Lists the names, formulas, and uses of some common acids and bases.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models,

- experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understands and applies laboratory safety rules and practices.
- 7.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 7.13.0 Explains the method scientists use to classify living things for the purpose of communication and study.
- 7.13.1 Explains how living organisms can be classified according to similarities in structure, behavior, food needs and chemical make-up into kingdoms, phyla, classes, orders, families, genera, and species.
- 7.18.0 Describes the characteristics of invertebrate animals (e.g., poriferans, coelenterates, segmented worms, mollusks, echinoderms, and anthropoids).
- 7.18.1 Sorts and classifies invertebrates into groups according to life conditions, methods of obtaining food, methods of reproduction and behavior.
- 7.20.0 Explains the food web / food chain cycles in nature that affect living things.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.16.0 Describes the water cycle and its relationship to the movement of surface and subsurface water.
- 8.16.1 Identifies parts of the water cycle.
- 8.16.2 Describes the formation of a river system.
- 8.16.3 Describes the distribution and quality of fresh water on the Earth.

Wheeled Vehicle

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.2.0 Understands & applies laboratory safety rules and practices
- 6.3.0 Defines and identifies standards of measurement.
- 6.3.2 Identifies SI units and symbols for length, volume, mass, density, time, and temperature.
- 6.3.3 Uses appropriate tools for determining mass, volume, temperature, density and length.
- 6.8.2 Describes different forms of energy (e.g. mechanical, electrical, radiant, nuclear, etc..)
- 6.9.0 Defines speed as a rate.
- 6.9.1 Performs calculations involving speed, time and distance to interpret distance-time.
- 6.9.2 Compares and contrasts speed, velocity, and accelerations
- 6.9.4 States and describes Newton's three laws of motion.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.2.0 Understands and applies laboratory safety rules and practices.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.3.2 Identifies SI units and symbols for length, volume, mass, density, time, and temperature.

Wright Stuff

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 6.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 6.8.1 Distinguishes between kinetic and potential energy.
- 6.8.2 Describes different forms of energy (e.g. mechanical, electrical, radiant, nuclear, etc..)
- 6.9.5 Gives examples of the effects of gravity.
- 6.10.4 Analyzes action and reaction forces.
- 6.11.2 States Bernoulli's principle and describes a way Bernoulli's principle is applied.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 7.4.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 8.2.0 Understands and applies laboratory safety rules and practices.
- 8.3.2 Identifies SI units and symbols for length, volume, mass, density, time, and temperature.

8.3.0 Selects and uses multiple types of print and nonprint sources for information on science concepts.

Write It Do It

- 6.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.
- 7.1.0 Uses Processes Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables. Also uses recording, analyzing, and operationally defining, formulating models, experimenting, constructing hypothesis and drawing conclusions.
- 8.1.0 Uses Process Skills of observing, classifying, communicating, measuring, predicting, inferring, identifying, and manipulating variables: recording analyzing and operationally defining, formulating models, experimenting, constructing hypotheses and draw conclusions.