

PERFORMANCE DESCRIPTORS FOR MASTERY

3RD GRADE SCIENCE

Nature of Science:

SC.PD.3.1

Mastery

Third grade students at mastery level study scientists from different cultures and backgrounds and identify their discoveries; recognize that scientific explanations lead to new discoveries; plan and conduct simple investigations using safe techniques; interpret and present data; control variables, and explore science careers in the community.

Students will:

- Demonstrate an understanding of the history and nature of science as a human endeavor encompassing the contributions of diverse cultures, scientists, and careers.
- Demonstrate the abilities and understanding necessary to do scientific inquiries.
- Demonstrate the ability to think and act as scientists by engaging in active inquires and investigations, while incorporating hands-on activities.

Application of Science:

SC.PD.3.3

Mastery

Third grade students at mastery level identify how parts of a system interact; recognize and use models as representations of real things; observe and identify patterns of change, consistency or regularity within the environment; cite examples of science and technology in daily events; demonstrate tolerance of different points of view.

Students will:

- Identify how the parts of a system interact.
- Recognize and use models as representations of real things.
- Observe and identify patterns of change, consistency or regularity within the environment.
- Demonstrate the ability to utilize technology to gather and organize data to communicate designs, results and conclusions.
- Identify that a solution to a problem often creates new problems.
- Demonstrate the ability to listen to, be tolerant of, and evaluate the impact of different points of view on health, population, resources and environmental practices while working in collaborative groups.

Content of Science:

SC.PD.3.2

Mastery

Third grade students at the mastery level compare the physical characteristics, structures, and behaviors of living things and explain how they function, change and adapt to their environment; identify physical and chemical properties of matter including density and changes in states of matter; investigate the properties of light energy; recognize the principles of force and motion and identify examples of potential and kinetic energy; examine the relationship between speed, distance and time; explore and describe how erosion, volcanoes, and earthquakes change Earth's surface; identify fossils as a record of time; describe the relative movement of the earth and moon in relation to the sun; describe the planets; identify the composition of rocks and explain how they are formed; compare and contrast layers of the Earth; identify geographical features using a model or map.

Students will:

- Demonstrate knowledge, understanding of application of scientific facts, concepts, principals, theories, and models delineated in the objectives.
- Demonstrate an understanding of the interrelationships among physics, chemistry, biology and the earth and space sciences.
- apply knowledge, understanding and skills of science subject matter / concepts to daily life experiences.



3RD GRADE SOCIAL STUDIES

Geography:

Performance Descriptors

Mastery

Third grade students at mastery level in geography:

label borders, latitude and longitude lines, map scale, equator, poles, Prime Meridian, Tropic of Cancer, Tropic of Capricorn, cardinal directions, intermediate directions, continents, oceans and time zones of North America on a map;

locate world geographic features;

compare regions of the United States in regard to plant and animal life, landforms, climate and human interactions with the environment;

identify and chart the journey of major explorers on a world map; and

use a legend to identify features on various types of maps and global information systems.

Civics:

Performance Descriptors

Mastery

Third grade students at mastery level in civics:

provide examples of and explain democratic values and beliefs; practice principles of good citizenship and respect for diversity;

compare and contrast basic forms of government and their impact on society;

examine customs of one's own society and determine the cultural origin;

describe historical conflicts and discuss their resolutions;

examine how the rights and responsibilities of citizens are reflected in patriotic symbols, songs and holidays; and

participate in a community service project, and determine how working together can improve lives and communities.

Economics:

Performance Descriptors

Mastery

Third grade students at mastery level in economics:

explain banking services and create a mock budget;

illustrate understanding of goods and services, supply and demand and scarcity of resources through the creation and interpretation of graphs;

sequence the path of raw material to a finished product;

relate occupations of given regions based on the natural resources using graphic resources; and

compare pricing strategies and advertising with product demand.

West Virginia History:

Performance Descriptors

Mastery

Third grade students at mastery level in West Virginia Studies:

use a grid system to locate West Virginia counties and county seats, bordering states and selected items;

identify the four physical geographic regions and the major communities within each region and describe the natural resource location and physical geography of each region; and

investigate points of interest in the tourist regions of West Virginia.

History:

Performance Descriptors

Mastery

Third grade students at mastery level in history:

use artifacts and historical pictures to compare and contrast the cultures of various Native American groups based on their geographic locations; and

determine the cause and effect of European exploration based on their motives, the information gained and the impact on Native Americans and the world.

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