

PERFORMANCE DESCRIPTORS FOR MASTERY

7TH GRADE SCIENCE

Nature of Science:

SC.PD.7.1

Mastery

Seventh grade students at the mastery level identify the importance of the research of historical and diverse scientists in society and culture; use skepticism, careful methodology, logical reasoning and creativity to conduct investigations; predict, hypothesize, identify variables, organize and interpret experimental data using safe techniques.

Students will:

- Demonstrate an understanding of the history of science and the evolution of scientific knowledge.
- Demonstrate an understanding of science as a human endeavor encompassing the contributions of diverse cultures and scientists.
- Demonstrate an understanding of the characteristics of a scientist.
- Demonstrate skills of scientific inquiry.

Application of Science:

SC.PD.7.3

Mastery

Seventh grade students at the mastery level analyze parts as they contribute to the functioning of the system; analyze changes in systems and models; match an innovation with the science that makes it possible; identify and use the appropriate technology to collect scientific data; use multiple media sources to evaluate different points of view regarding health, population, resources and environmental practices.

Students will:

- Explore the relationship between the parts and the whole system; construct a variety of useful models; examine changes that occur in an object or system.
- Demonstrate an understanding of the interdependence between science and technology.
- Demonstrate the ability to utilize technology to gather data and communicate designs, results and conclusions.
- Demonstrate the ability to evaluate the impact of different points of view on health, population, resource and environmental practices.

Content of Science:

SC.PD.7.2

Mastery

Seventh grade students at the mastery level describe the function of human systems, organs and cells; create simple keys to group organisms; analyze chemical and living cycles in ecosystems; illustrate life cycles of plants; describe particle movement and energy during phase changes; identify elements and compounds and place them in word equations; examine the behavior of light waves; interpret effect of medium on waves; characterize alternating and direct current; investigate energy transformation; explain mechanical advantage of simple machines; characterize gravity as a force; explain weather and patterns of ocean circulation; interpret and model topography; describe rock formation and classify rocks; explain life cycles of a star; relate latitude to climate.

Students will:

- Demonstrate knowledge, understanding and applications of scientific facts, concepts, principles, theories and models as delineated in the objectives.
- Demonstrate an understanding of the interrelationships among physics, chemistry, biology, earth/environmental science, and astronomy.
- Apply knowledge, understanding and skills of the science subject matter/concepts to daily life experiences.



7TH GRADE SOCIAL STUDIES

Geography:

Performance Descriptors

Mastery

Seventh grade students at mastery level in geography:

locate and draw conclusions about information on a variety of maps;

describe the geographic regions and cultures of the world and the physical and human processes that shape their environments; and

analyze how the relationship of people with their environment is affected by physical geography and the changing nature of the earth's surface in terms of settlement, transportation.

Civics:

Performance Descriptors

Mastery

Seventh grade students at mastery level in civics:

classify the various forms of government through the Age of Imperialism;

examine examples of patriotism and nationalism in relation to various forms of governments through the Age of Imperialism; and

distinguish between rights and responsibilities of the members of social class systems in various civilizations.

Economics:

Performance Descriptors

Mastery

Seventh grade students at mastery level in economics:

give examples of the impact of economic concepts on individual citizens;

compare and contrast goods and services;

describe the incentives of various countries to explore and settle new lands;

summarize how traditional economies led to the development of mercantilism and the middle class;

explain how natural and human events affect the local economy; and

explain the impact of natural resources on the economy of a nation.

Literacy:

Performance Descriptors

Mastery

Sixth through eighth grade students at mastery level in literacy:

determine central ideas and cite textual evidence; provide an accurate summary; identify key steps in a process related to history/social studies;

determine the meaning of domain-specific vocabulary; identify an author's point of view or purpose;

integrate visual information; distinguish among fact, opinion and reasoned judgment; analyze the relationship between primary and secondary sources;

read and comprehend history/social studies texts in the grades 6-8 text complexity band independently and proficiently;

compose arguments and informative/explanatory texts; use precise language and domain-specific vocabulary;

with some guidance and support, use technology to develop, strengthen, publish and present clear and coherent writing;

conduct short research projects drawing on several relevant, credible, and accurate sources; avoid plagiarism; and

write over extended time frames for research-based projects and shorter time frames for a range of discipline-specific tasks, purposes and audiences.

Regional Education
Service Agencies

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A powerful engine for education

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History:

Performance Descriptors

Mastery

Seventh grade students at mastery level in history:

explain major principles and key philosophies of the major world religions;

categorize the contributions of selected civilizations and describe how those contributions influenced other cultures;

explain how significant people, places, documents, ideas and events affected European civilization in the Middle Ages, Renaissance, and Reformation; and

examine the connection between imperialism and the triangular trade.

