

2010 Arbor Day Poster Contest: Correlations to the Kansas State Core Curricular Standards for 5th Grade

When was the last time you used one lesson unit to teach reading, math, science, social studies and art? Check out the great activities in the "Trees Are Terrific...and Energy Wise" 2010 Arbor Day National Poster Contest and use the following to help you align the activities with your teaching objectives! Below you will find the correlations to the Kansas Standards for both activities included in the Lesson Plan & Contest Rules booklet.

Activity: Design an Energy Wise Community Using Trees (Basic Activity p. 12)

READING--Standard 1: The student reads and comprehends text across the curriculum.
Benchmark 2: The student reads fluently.

READING--Standard 1: The student reads and comprehends text across the curriculum.
Benchmark 3: The student expands vocabulary.

READING--Standard 1: The student reads and comprehends text across the curriculum.
Benchmark 4: The student reads comprehends a variety of texts (*narrative, expository, technical, and persuasive*).

WRITING--Standard 1 -The students write effectively for a variety of audiences, purposes, and contexts.
Benchmark 3: The student writes technical text using the writing process.

STANDARD 1: SCIENCE AS INQUIRY - The student will develop the abilities to do *scientific inquiry*, be able to demonstrate how *scientific inquiry* is applied, and develop understandings about *scientific inquiry*.
Benchmark 1: The student will demonstrate abilities necessary to do the processes of *scientific inquiry*.

STANDARD 2: PHYSICAL SCIENCE - The student will apply process skills to develop an understanding of physical science including: properties, changes of properties of matter, motion and forces, and transfer of energy.
Benchmark 4: The student will understand and demonstrate the transfer of energy.

SCIENCE STANDARD 6: SCIENCE IN PERSONAL AND ENVIRONMENTAL PERSPECTIVES-
The student will apply process skills to explore and develop an understanding of issues of personal health, population, resources and environment, and natural hazards.
Benchmark 2: The student will understand the impact of human activity on resources and environment.

SCIENCE STANDARD 7: HISTORY AND NATURE OF SCIENCE - The student will examine and develop an understanding of science as a historical human endeavor.
Benchmark 1: The student will develop scientific habits of mind.

SOCIAL STUDIES ECONOMICS STANDARD: The student uses a working knowledge and understanding of major economic concepts, issues, and systems, applying decision-making skills as a consumer, producer, saver, investor, and citizen of Kansas and the United States living in an interdependent world.

Benchmark 5: The student makes effective decisions as a consumer, producer, saver, investor, and citizen.

SOCIAL STUDIES GEOGRAPHY STANDARD: The student uses a working knowledge and understanding of the spatial organization of Earth's surface and relationships between peoples and places and physical and human environments in order to explain the interactions that occur in Kansas, the United States, and in our world.

Benchmark 2: Places and Regions: The student analyzes the human and physical features that give places and regions their distinctive character.

SOCIAL STUDIES GEOGRAPHY STANDARD: The student uses a working knowledge and understanding of the spatial organization of Earth's surface and relationships between peoples and places and physical and human environments in order to explain the interactions that occur in Kansas, the United States, and in our world.

Benchmark 5: Human-Environment Interactions: The student understands the effects of interactions between human and physical systems.

Extension Activity: How Trees Produce and Conserve Energy (p. 18)

SCIENCE STANDARD 1: SCIENCE AS INQUIRY

Benchmark 1: The student will demonstrate abilities necessary to do the processes of scientific inquiry.

Benchmark 2: The student will apply different kinds of investigations to different kinds of questions.

SCIENCE STANDARD 3: LIFE SCIENCE - The student will apply process skills to explore and understand structure and function in living systems, reproduction and heredity, regulation and behavior, populations and ecosystems, and diversity and adaptations of organisms.

Benchmark 1: The student will model structures of organisms and relate functions to the structures.

Benchmark 3: The student will describe homeostasis, the regulation and balance of internal conditions in response to a changing external environment.

Benchmark 5: The student will observe the diversity of living things and relate their adaptations to their survival or extinction.

STANDARD 7: HISTORY AND NATURE OF SCIENCE - The student will examine and develop an understanding of science as a historical human endeavor.

Benchmark 1: The student will develop scientific habits of mind.

MATH STANDARD 1: NUMBER AND COMPUTATION - The student uses numerical and computational concepts and procedures in a variety of situations.

Benchmark 1: Number Sense - The student demonstrates number sense for integers, fractions, decimals, and money in a variety of situations.

MATH STANDARD 1: NUMBER AND COMPUTATION - The student uses numerical and computational concepts and procedures in a variety of situations.

Benchmark 4: Computation - The student models, performs, and explains computation with whole numbers, fractions including mixed numbers, and decimals including the use of concrete objects in a variety of situations.

MATH STANDARD 4: DATA - The student uses concepts and procedures of data analysis in a variety of situations.

Benchmark 2: Statistics - The student collects, organizes, displays, explains, and interprets numerical (rational numbers) and non-numerical data sets in a variety of situations with a special emphasis on measures of central tendency.

Extension Activity: Discover How Trees Produce Energy (p. 21)

READING--Standard 1: The student reads and comprehends text across the curriculum.

Benchmark 2: The student reads fluently.

READING--Standard 1: The student reads and comprehends text across the curriculum.

Benchmark 3: The student expands vocabulary.

READING--Standard 1: The student reads and comprehends text across the curriculum.

Benchmark 4: The student reads comprehends a variety of texts (*narrative, expository, technical, and persuasive*).

SCIENCE STANDARD 6: SCIENCE IN PERSONAL AND ENVIRONMENTAL PERSPECTIVES-

The student will apply process skills to explore and develop an understanding of issues of personal health, population, resources and environment, and natural hazards.

Benchmark 2: The student will understand the impact of human activity on resources and environment.

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For information on how environmental education can support high quality and engaging learning in your classroom, exciting opportunities for professional development and information on how to become a part of the Kansas Green Schools network!

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