

A correlation of
**Population Connection
Activities**

from

Multiplying People, Dividing Resources:
Global Math Activities

to

The Show-Me Standards

Organized by:

- 1. Population Connection Activity*
- 2. Subject*
- 3. Standard*

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All in the Family

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

6. discover and evaluate patterns and relationships in information, ideas and structures
8. organize data, information and ideas into useful forms (including charts, graphs, outlines) for analysis or presentation

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
3. data analysis, probability and statistics
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts
5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

3. characteristics and interactions of living organisms

Every Picture Tells a Story

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

6. discover and evaluate patterns and relationships in information, ideas and structures

GOAL 3: Students in Missouri public schools will acquire the knowledge and skills to recognize and solve problems.

Students will demonstrate within and integrate across all content areas the ability to

5. reason inductively from a set of specific facts and deductively from general premises

Mathematics

3. data analysis, probability and statistics

Social Studies

7. the use of tools of social science inquiry (such as surveys, statistics, maps, documents)

Everything Counts

Goals

GOAL 3: Students in Missouri public schools will acquire the knowledge and skills to recognize and solve problems.

Students will demonstrate within and integrate across all content areas the ability to

4. evaluate the processes used in recognizing and solving problems

Mathematics

2. geometric and spatial sense involving measurement (including length, area, volume), trigonometry, and similarity and transformations of shapes

3. data analysis, probability and statistics

4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts

5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

3. characteristics and interactions of living organisms

7. processes of scientific inquiry (such as formulating and testing hypotheses)

Global Warming Begins at Home

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

10. apply acquired information, ideas and skills to different contexts as students, workers, citizens and consumers

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations

5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

4. changes in ecosystems and interactions of organisms with their environments

5. processes (such as plate movement, water cycle, air flow) and interactions of earth's biosphere, atmosphere, lithosphere and hydrosphere

7. processes of scientific inquiry (such as formulating and testing hypotheses)

8. impact of science, technology and human activity on resources and the environment

How Much Space Do We Need?

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

1. develop questions and ideas to initiate and refine research

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
2. geometric and spatial sense involving measurement (including length, area, volume), trigonometry, and similarity and transformations of shapes
3. data analysis, probability and statistics
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts
5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

3. characteristics and interactions of living organisms
7. processes of scientific inquiry (such as formulating and testing hypotheses)
8. impact of science, technology and human activity on resources and the environment

Social Studies

5. the major elements of geographical study and analysis (such as location, place, movement, regions) and their relationships to changes in society and environment

Measuring a Million

Goals

GOAL 3: Students in Missouri public schools will acquire the knowledge and skills to recognize and solve problems.

Students will demonstrate within and integrate across all content areas the ability to

4. evaluate the processes used in recognizing and solving problems

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
2. geometric and spatial sense involving measurement (including length, area, volume), trigonometry, and similarity and transformations of shapes
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts
5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

On the Double

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

6. discover and evaluate patterns and relationships in information, ideas and structures
8. organize data, information and ideas into useful forms (including charts, graphs, outlines) for analysis or presentation

GOAL 3: Students in Missouri public schools will acquire the knowledge and skills to recognize and solve problems.

Students will demonstrate within and integrate across all content areas the ability to

5. reason inductively from a set of specific facts and deductively from general premises

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
3. data analysis, probability and statistics
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts
5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

3. characteristics and interactions of living organisms

The Pop Ecology Files

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

6. discover and evaluate patterns and relationships in information, ideas and structures

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
3. data analysis, probability and statistics
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts

Science

3. characteristics and interactions of living organisms
4. changes in ecosystems and interactions of organisms with their environments
7. processes of scientific inquiry (such as formulating and testing hypotheses)
8. impact of science, technology and human activity on resources and the environment

Population Clock

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts
5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Power of the Pyramids

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

6. discover and evaluate patterns and relationships in information, ideas and structures
8. organize data, information and ideas into useful forms (including charts, graphs, outlines) for analysis or presentation
9. identify, analyze and compare the institutions, traditions and art forms of past and present societies

GOAL 3: Students in Missouri public schools will acquire the knowledge and skills to recognize and solve problems.

Students will demonstrate within and integrate across all content areas the ability to

5. reason inductively from a set of specific facts and deductively from general premises

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts

Social Studies

2. continuity and change in the history of Missouri, the United States and the world
5. the major elements of geographical study and analysis (such as location, place, movement, regions) and their relationships to changes in society and environment
6. relationships of the individual and groups to institutions and cultural traditions
7. the use of tools of social science inquiry (such as surveys, statistics, maps, documents)

The Stork and the Grim Reaper

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
2. geometric and spatial sense involving measurement (including length, area, volume), trigonometry, and similarity and transformations of shapes
5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

7. processes of scientific inquiry (such as formulating and testing hypotheses)

Timber!

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

8. organize data, information and ideas into useful forms (including charts, graphs, outlines) for analysis or presentation

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
3. data analysis, probability and statistics
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts
5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

3. characteristics and interactions of living organisms
4. changes in ecosystems and interactions of organisms with their environments
8. impact of science, technology and human activity on resources and the environment

Social Studies

4. economic concepts (including productivity and the market system) and principles (including the laws of supply and demand)

Transportation Tally

Goals

GOAL 4: Students in Missouri public schools will acquire the knowledge and skills to make decisions and act as responsible members of society.

Students will demonstrate within and integrate across all content areas the ability to

3. analyze the duties and responsibilities of individuals in societies

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations

5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

4. changes in ecosystems and interactions of organisms with their environments

8. impact of science, technology and human activity on resources and the environment

Social Studies

4. economic concepts (including productivity and the market system) and principles (including the laws of supply and demand)

What Do You Think?

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

1. develop questions and ideas to initiate and refine research
2. conduct research to answer questions and evaluate information and ideas
3. design and conduct field and laboratory investigations to study nature and society
6. discover and evaluate patterns and relationships in information, ideas and structures
8. organize data, information and ideas into useful forms (including charts, graphs, outlines) for analysis or presentation

GOAL 4: Students in Missouri public schools will acquire the knowledge and skills to make decisions and act as responsible members of society.

Students will demonstrate within and integrate across all content areas the ability to

1. analyze the duties and responsibilities of individuals in societies

Communication Arts

1. speaking and writing standard English (including grammar, usage, punctuation, spelling, capitalization)

Mathematics

3. data analysis, probability and statistics

Science

4. changes in ecosystems and interactions of organisms with their environments
7. processes of scientific inquiry (such as formulating and testing hypotheses)
8. impact of science, technology and human activity on resources and the environment

Social Studies

6. relationships of the individual and groups to institutions and cultural traditions
7. the use of tools of social science inquiry (such as surveys, statistics, maps, documents)

A World of Difference

Goals

GOAL 1: Students in Missouri public schools will acquire the knowledge and skills to gather, analyze and apply information and ideas.

Students will demonstrate within and integrate across all content areas the ability to

6. discover and evaluate patterns and relationships in information, ideas and structures

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations

3. data analysis, probability and statistics

5. mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples)

Science

3. characteristics and interactions of living organisms

4. changes in ecosystems and interactions of organisms with their environments

7. processes of scientific inquiry (such as formulating and testing hypotheses)

8. impact of science, technology and human activity on resources and the environment

Social Studies

5. the major elements of geographical study and analysis (such as location, place, movement, regions) and their relationships to changes in society and environment

World Real Estate

Mathematics

1. addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations
3. data analysis, probability and statistics
4. patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts

Science

7. processes of scientific inquiry (such as formulating and testing hypotheses)

Social Studies

2. continuity and change in the history of Missouri, the United States and the world
5. the major elements of geographical study and analysis (such as location, place, movement, regions) and their relationships to changes in society and environment