

Statistics in Schools

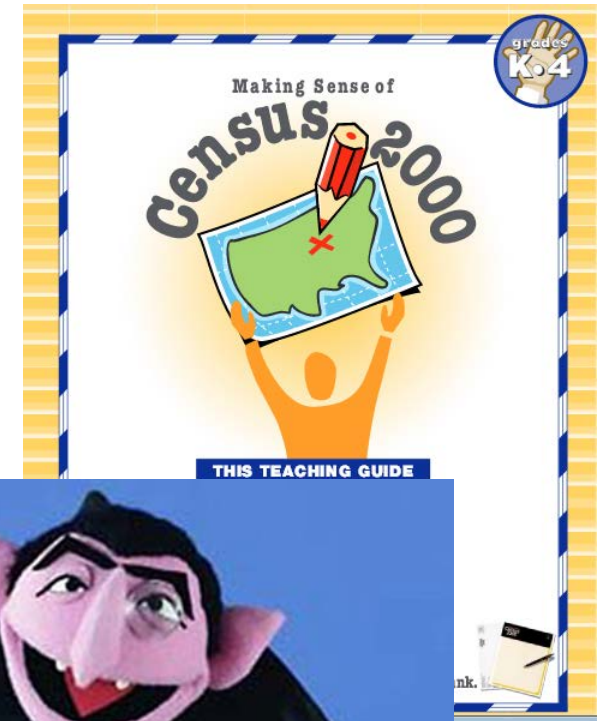
www.census.gov/schools



Census in Schools 2000 and 2010

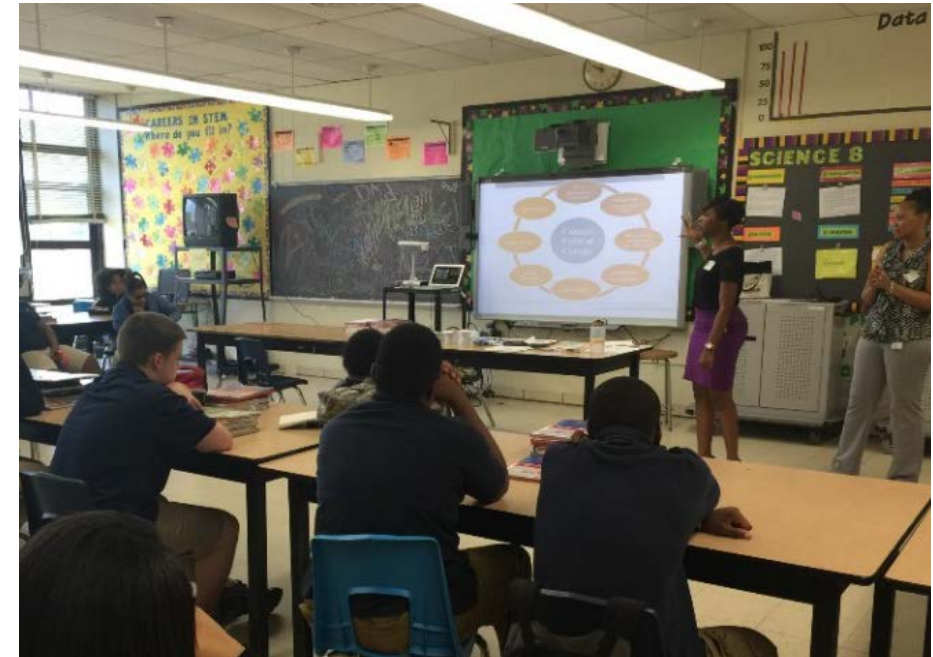
Program in U.S. and Puerto Rico and the Island Areas (Guam, American Samoa, the Northern Mariana Islands, and the U.S. Virgin Islands)

- Printed maps
- Kits and lessons
- CIS Week materials
- Family take-home pages



Statistics in Schools Overview

- A free program (www.census.gov/schools) offering real census data, tools, and standards based activities for K-12 classrooms.
- Increase statistical literacy
- Establish a connection now with the next generation of census respondents.



Key Messages

1. There is a need for greater statistics knowledge in today's data-driven economy.
2. Statistics in Schools introduces statistics beyond math classes.
3. All Statistics in Schools activities were created by teachers, for teachers.
4. Statistics in Schools is a product of the U.S. Census Bureau.

"It's becoming increasingly difficult to define who is and is not included in America's modern STEM – or science, technology, engineering and math – workforce, simply because technical proficiency is becoming mandatory in a diverse body of occupations."

– Andrew Soergel, U.S. News & World Report

Partnerships

“Empowering students to be educated consumers of data.”



English Activities

HELLO my name is...
Top 15 Most Popular Last Names in the U.S. by Rank

1990	2000	2010
Smith	Smith	Smith
Johnson	Johnson	Johnson
Williams	Williams	Williams
Jones	Brown	Brown
Brown	Jones	Jones
Davis	Miller	Garcia
Miller	Davis	Miller
Wilson	Garcia	Davis
Moore	Rodriguez	Rodriguez
Taylor	Wilson	Martinez
Anderson	Martinez	Martinez
Thomas	Anderson	Hernandez
Jackson	Taylor	Lopez
White	Thomas	Gonzalez
Harris	Hernandez	Wilson
		Anderson

Surnames in red indicate their first appearance among the top 15 last names in a census.

Source: Frequently Occurring Surnames in the 1990 Census, Demographic Aspects of Surnames from Census 2000 and Frequently Occurring Surnames in the 2010 Census

U.S. Department of Commerce
 Economics and Statistics Administration
 14700 Census Bureau
 census.gov

Names and Narratives

United States Census Bureau **HOW DO WE KNOW?**

An American Community

The U.S. Census Bureau's American Community Survey (ACS) is a vital source of information that helps communities, businesses and state and local governments invest, provide services and plan for the future. With statistics on age, income level, education, occupation and veterans status, the ACS enables decision-makers to appropriately fund school-lunch programs, place new hospitals, build new businesses and take other actions that lead to healthy towns and cities.

Census Data at Work

1930
 Census Day was April 1, 1930.

Authorizing Legislation
 The Fifteenth Census Act, approved June 18, 1929, authorized "a census of population, agriculture, irrigation, drainage, distribution, unemployment, and mines [to be] taken by the Director of the Census." This act was the first to specify specific questions to be investigated, leaving the content of the census to the discretion of the director. The census encompassed each state, along with Washington, DC, Alaska, Hawaii, and Puerto Rico. The governors of Guam, American Samoa, and the Virgin Islands each completed a census that same year. So did the governor of the Panama Canal Zone.

Crises and Controversies
 In the time between the passage of the act and census day, the stock market crashed and the nation plunged into the Great Depression. The public and academics wanted quick access to the unemployment information collected in the 1930 census. The Census Bureau had not planned to process the unemployment information it had collected in the 1930 later and was unequipped to meet these demands. When it did rush its data on unemployment out, the numbers it reported were attacked as being too low. Congress required a special unemployment census for January 1931; the data it produced confirmed the severity of the situation.

Intercensal Activity
 Congress mandated that another unemployment census be conducted in 1937. This special census was largely voluntary; postal carriers delivered a form to every residential address in the country and those who were unemployed were expected to fill it out and mail it back. This special census is noteworthy because it was an early opportunity for Census Bureau statisticians to experiment with statistical sampling. Two percent of households were delivered a special census questionnaire whose results were used to test the accuracy of the larger census.

"To Kill a Mockingbird"

HELLO my name is...

Top 15 Most Popular Last Names in the U.S. by Rank

1990

Smith
Johnson
Williams
Jones
Brown
Davis
Miller
Wilson
Moore
Taylor
Anderson
Thomas
Jackson
White
Harris

2000

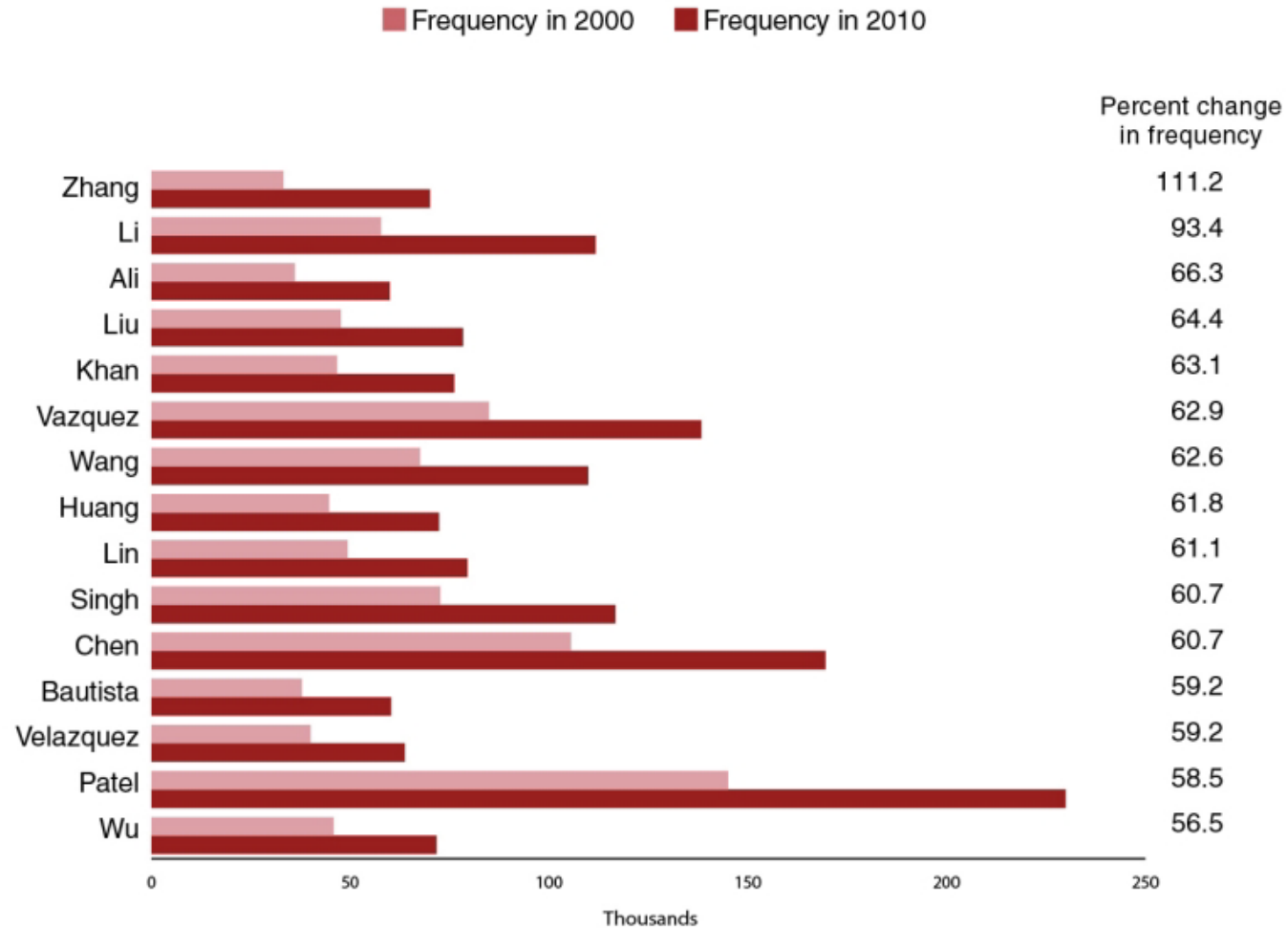
Smith
Johnson
Williams
Brown
Jones
Miller
Davis
Garcia
Rodriguez
Wilson
Martinez
Anderson
Taylor
Thomas
Hernandez

2010

Smith
Johnson
Williams
Brown
Jones
Garcia
Miller
Davis
Rodriguez
Martinez
Hernandez
Lopez
Gonzalez
Wilson
Anderson

Top Surnames

Top 15 Last Names With the Largest Frequency Increase



History Activities



Native American Dwellings

ENUMERATION of Persons in the several Districts of the UNITED STATES.

Name of District.	FREE WHITE MALES.					FREE WHITE FEMALES.					SLAVES.	TOTAL.	
	Under 10 years of age.	Of 10 and under 16.	Of 16 and under 21, including heads of families.	Of 21 and under 45, including heads of families.	Of 45 and upwards, including heads of families.	Under 10 years of age.	Of 10 and under 16.	Of 16 and under 21, including heads of families.	Of 21 and under 45, including heads of families.	Of 45 and upwards, including heads of families.			
New Hampshire	30,694	14,881	10,379	17,889	11,715	29,871	15,193	17,153	18,381	12,112	832	8	183,838
Massachusetts	63,646	32,507	37,905	39,729	31,348	60,920	30,674	40,491	43,835	35,347	6,452	—	422,845
Maine	27,970	12,303	12,500	15,318	8,339	36,829	11,338	13,293	14,496	8,041	818	—	151,719
Connecticut	37,946	19,408	21,683	23,181	18,976	35,736	18,218	23,561	25,186	20,827	5,309	951	251,002
Vermont	29,420	12,046	15,242	16,544	8,076	28,272	11,366	12,600	15,287	7,049	557	—	134,465
Rhode-Island	9,945	5,552	5,889	5,785	4,887	9,524	5,026	6,465	6,915	5,648	3,304	380	69,122
New-York	83,161	36,953	40,045	52,454	25,697	79,154	32,822	39,086	47,716	23,161	8,573	15,602	484,065
Supplemental return for New-York state	16,926	7,323	9,230	9,140	6,358	16,519	6,649	9,050	8,701	5,490	1,801	5,011	101,985
New-Jersey	55,900	15,859	16,301	19,950	19,639	32,622	14,827	17,018	19,539	11,600	4,402	12,422	211,149
Eastern district of Pennsylvania	52,767	24,428	29,592	33,864	20,824	51,176	23,437	29,879	30,892	15,529	11,253	557	327,979
Western district of Pennsylvania	50,459	21,623	24,369	35,469	17,761	48,448	20,562	24,095	22,954	14,066	3,311	1,149	274,566
Delaware	8,250	4,437	5,121	5,012	2,213	7,628	4,277	5,545	4,981	2,590	8,268	6,153	64,273
Maryland, inclusive of Washington county, in Columbia	55,520	16,581	20,560	22,169	12,617	22,463	15,718	21,506	20,563	11,246	18,646	102,465	317,348
Additional return for Baltimore county	567	226	318	343	249	571	322	378	318	199	41	847	4,276
Eastern district of Virginia	57,837	23,996	32,444	34,589	19,087	55,597	25,469	34,907	32,641	18,921	18,194	322,199	676,682
District of Columbia, in Virginia	889	526	483	557	221	670	312	479	473	189	383	1,172	8,949
Western District of Virginia	34,601	14,502	16,364	15,874	11,134	32,726	15,366	15,923	8,632	15,169	1,930	25,597	203,518
North-Carolina	63,118	27,073	31,860	31,209	18,688	59,074	25,874	32,989	30,663	17,514	7,043	133,296	478,103
South-Carolina	37,411	16,156	17,761	19,544	10,244	34,664	15,857	18,145	17,236	9,437	3,183	146,151	245,591
Georgia	19,841	8,469	9,787	10,914	4,937	18,407	7,914	9,243	8,835	5,894	1,919	59,699	162,696
Kentucky	37,274	14,045	15,705	17,699	9,339	34,949	13,433	15,324	14,934	7,075	741	40,543	220,959
Territory N. W. river Ohio	9,362	3,647	4,653	4,832	1,955	8,644	3,553	3,861	3,342	1,395	337	—	45,365
Indiana territory	854	347	466	645	262	791	280	424	395	115	163	153	5,641
Mississippi territory	999	356	432	780	290	953	376	352	426	165	182	5,489	8,850
Tennessee	19,327	7,194	8,282	8,332	4,123	18,455	7,042	8,554	6,997	5,491	309	13,584	105,602
Maryland, corrected	36,751	17,743	21,929	23,553	13,712	34,705	16,787	22,915	21,723	12,180	19,987	107,701	349,692



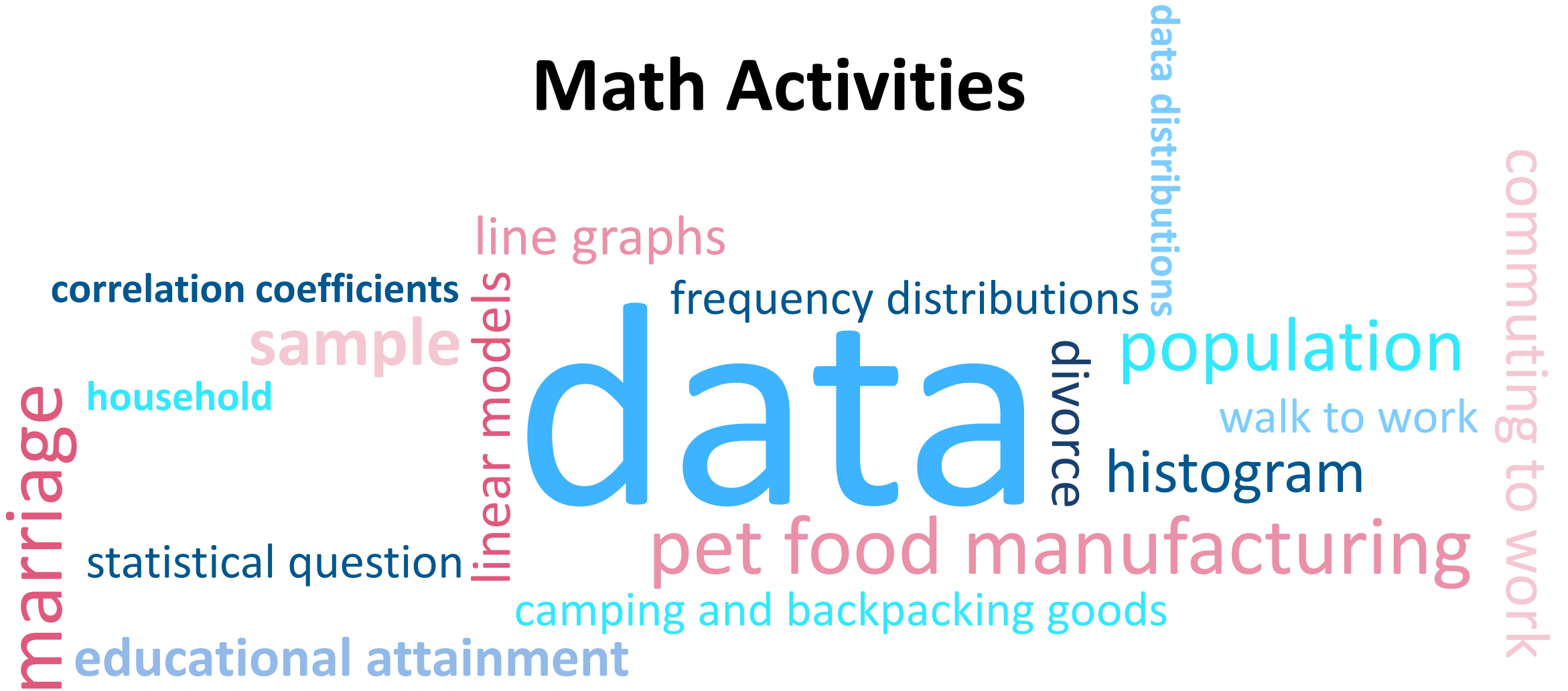
Political Cartoon

Primary Source Analysis

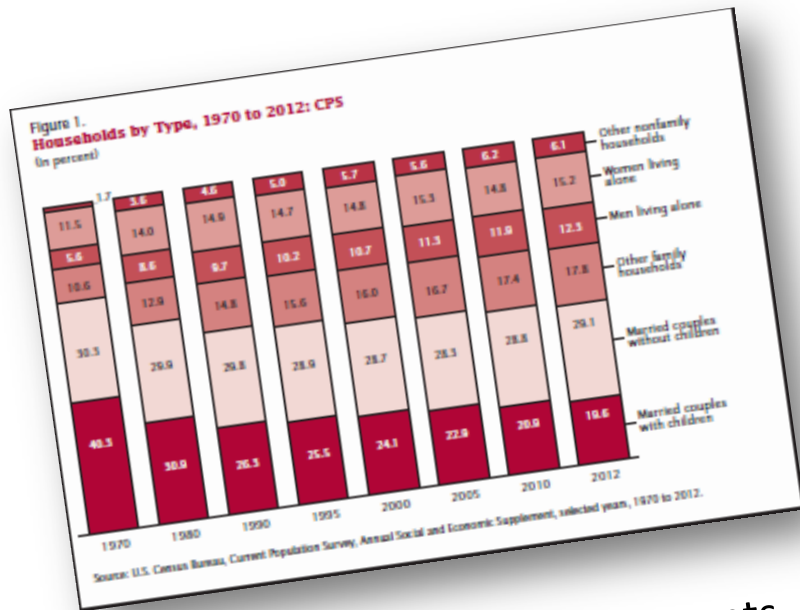




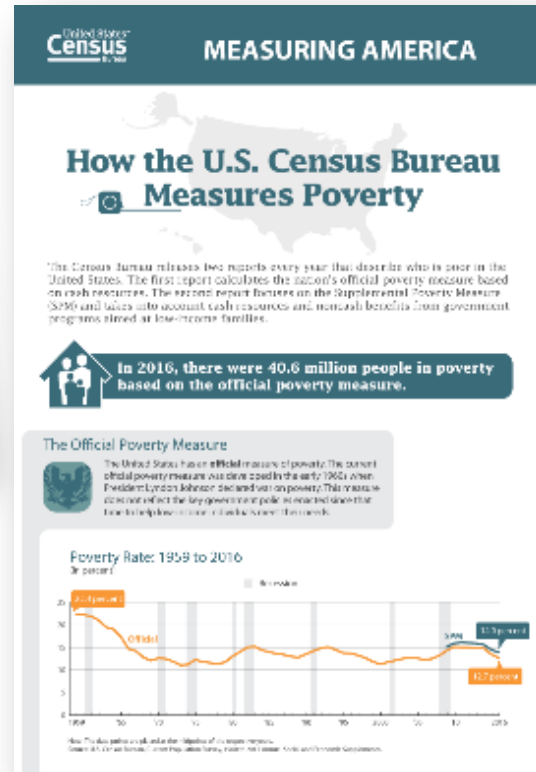
Math Activities



Sociology Activities



Families and Living Arrangements



Poverty in America



Analysis of the Millennial Generation

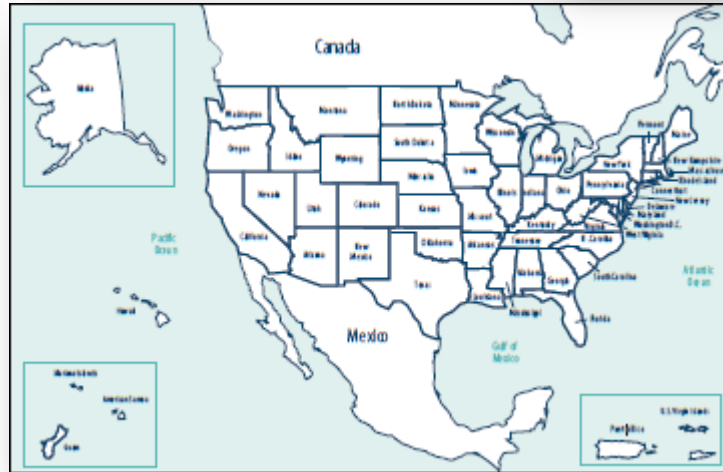
Geography Activities



Examining Environmental Changes



Agricultural Density



Geographic Scavenger Hunt

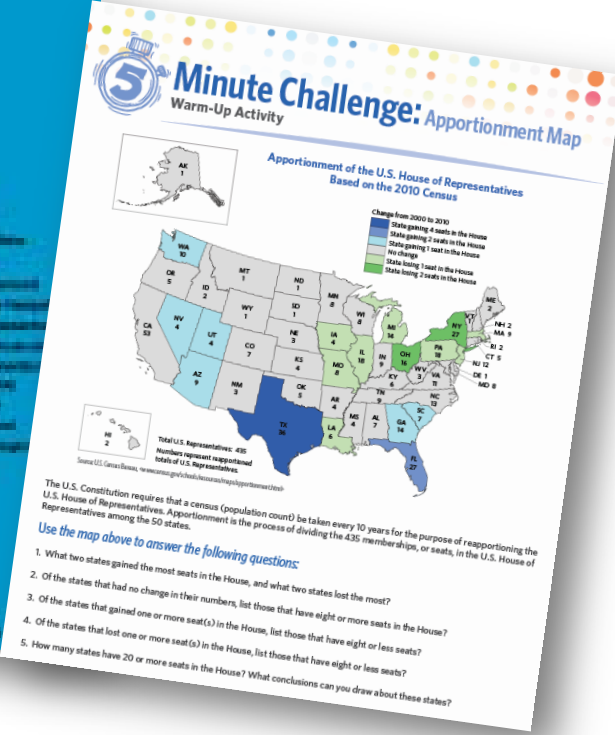
Resources



Fun Facts Handouts
& Teaching Guides



State Facts for Students
Data Tool



5-Minute Warm-Up Challenges

Scavenger Hunt: Where is Gina The Geographer?



Students will participate in an online scavenger hunt based on a story that a geographer named Gina, who loves to travel, has escaped to an undisclosed location. It is their mission to bring her back to the school. Students must follow a series of clues about the location including landmarks, weather, and population—and use a U.S. Census Bureau data tool called State Facts for Students to answer questions that lead them one step closer to finding Gina.







Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: I have a sweet tooth and eat candy maybe a little more often than I should (don't tell my dentist!). This state/territory had only one candy and nut store in 2016, so I knew I couldn't go there. Which state/territory can you eliminate?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: Let's talk about another place where I am not hiding! An important part of the culture of people who live in this state/territory is language. I wish I spoke Spanish, but I don't. Although many people in this state/territory speak both English and Spanish, I was still worried that it may have been hard for me to communicate with everyone I met there. If I lived in the capital city, San Juan, it could have been easier to get around, but I ultimately decided to go elsewhere. Which state/territory can you cross off your list?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: Zoos and botanical gardens are important to me because I am an animal lover. I also love nature! So I escaped somewhere that has a lot of zoos and gardens. Of the states/territories left, which can you eliminate because it has the fewest zoos and gardens, according to the most recent data (2016)? And how many are there?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: This large state/territory has a lot of fast-food restaurants compared with some other states/territories—a grand total of 20,174 (as of 2016). I try to eat healthy most of the time (aside from a sweet now and again), so I knew I'd prefer a location where there weren't as many places to get hamburgers and fries. Which state/territory can you eliminate now?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: This state/territory had only two ice cream and frozen dessert makers in 2016, which is a small amount compared with other places. Although I usually try to eat healthy, I love to treat myself to ice cream every once in a while, so I knew I'd rather go somewhere that had more ice cream makers! This state/territory also has less than 150 persons per square mile. Which state/territory can you cross off your list?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: I brought my dog along on my journey, so I wanted to make sure I had a lot of options for pet and pet supply stores once we reached our destination. Which state/territory can you eliminate because it has the fewest pet and pet supply stores of the four states/territories that remain (as of 2016)? And how many are there?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: I love being around people, so I knew I would rather live somewhere with a high population. Looking at the three states/territories that are left, which one can you eliminate because it has the lowest population (as of 2017)? And what is that population?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: You're getting really warm now! Only two options left. I grew up in Atlanta—the largest city in this state/territory as well as the capital. I like where I'm from, but I wanted to go somewhere new! Which state/territory can you eliminate?

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Clue: There is a very important landmark in this state/territory that sets it apart from the others. It is related to amusement parks, cartoon characters, animals, and movies. Name the state/territory where I am having a blast. (And if you know the name of the landmark, write it here too!)

Possible States/Territories

1	Texas
2	Louisiana
3	Mississippi
4	Alabama
5	Florida
6	Georgia
7	South Carolina
8	Puerto Rico
9	U.S. Virgin Islands

Describe what you learned about places in this activity.

What are some characteristics of the state or territory where you live? (Think of what you already know about your community, and then use State Facts for Students to see what else you can find out.) Is what you know about your own community the same as (or different from) the facts about your state/territory?

Where Should I Live? Using U.S. Census Bureau Data to Make Decisions



Students will use the U.S. Census Bureau's QuickFacts data access tool to examine information about three cities, including population, education, and income data. Students will draw conclusions about life in those three cities to determine which city they would like to live in as an adult.

Activity Questions

Part 1 – Examine Data for Three Cities

If someday you had the choice to live wherever you wanted, where would you choose? Would you want to live in the city or in the country? Would you prefer to live near the beach or the mountains? Do you think you would like to walk, bike, or drive to work?

In this activity, you will examine data in QuickFacts for three different cities to determine where you might like to live when you are older.

Activity Questions

1. Write your first city and state here:

Albuquerque, New Mexico

2. Next, think about a different city that you have never visited but are interested in learning more about.

Write that city and state here:

Las Vegas, Nevada

3. Now think of another city that you have visited and that you would like to explore further.

Write that city and state here:

St. Louis, Missouri

Activity Questions

4. Retrieve the most recent data available in QuickFacts to learn more about your three cities to answer the questions below. (If you see an “X” or another letter in a category, try to draw a conclusion for why those data may not be available.):

- Rank the cities from largest to smallest, according to the population estimates (not base).
 1. **Las Vegas**
 2. **Albuquerque**
 3. **St. Louis**
- Which city has the largest percentage of people aged 5 and up who speak a language other than English at home?

Las Vegas

Activity Questions

- In which city does it take longest, on average, for people aged 16 and up to get to work?

Las Vegas

- Which city has the greatest percentage of foreign-born people?

Las Vegas

- Which city has the largest percentage of people aged 25 and up with a bachelor's degree or higher?

Albuquerque

- Which city has the highest median household income?

Las Vegas

- Which city has the greatest percentage of people younger than 18?

Las Vegas

- Which city has the greatest percentage of people aged 65 and older?

Las Vegas

Activity Questions

- Which city has the most women-owned firms?

Las Vegas

5. Analyze these and other data from QuickFacts to answer the following questions about your three cities:

- Which city do you think has the greatest need for support services for low-income families? How do you know?

St. Louis because it has more people living in poverty than the other two cities.

- Which city appears to be the least racially diverse? How do you know?

Albuquerque because it has fewer people who are black or African-American and Hispanic or Latino than the other two cities, when compared with the white population.

Activity Questions

- Which city appears to have the most educated residents? Are its residents more educated than people in the United States as a whole? How do you know?

Albuquerque because it has slightly more people with a bachelor's degree or higher, though all three cities are very close in terms of education level. In Albuquerque, the percentages of people who have high school diplomas or higher and bachelor's degrees or higher are slightly larger than for the nation.

- What other conclusions can you make about these three cities?

Student answers will vary.

Activity Questions

Part 2 – Pick Your Favorite City

Based on what you have learned so far about your three cities, select the two where you would be most interested in living. Write the two cities where indicated in the middle two column headers of the table below. Next, pick five categories (e.g., population) and their subcategories (e.g., population estimates) from QuickFacts that you think are the most important criteria to consider when choosing a place to live and write them in the spaces provided in the first column.

Fill in the rest of the table with the QuickFacts data. In the right column, write which city you think is the “winner” for each criterion and briefly explain why.

Activity Questions

Criteria	City: Las Vegas	City: Albuquerque	Winner
Category: Population Subcategory: Population Estimates	641,676	558,545	Las Vegas. I want to live in a city with more people.
Category: Education Subcategory: Bachelor's degree or higher	22.4%	33.8%	Las Vegas. My expected college degree would be more competitive in a city with fewer college graduates.
Category: Transportation Subcategory: Mean travel time to work (minutes)	25.4	21.1	Albuquerque. It takes a little less time on average to get to work here than in Las Vegas.

Activity Questions

Criteria	City: Las Vegas	City: Albuquerque	Winner
Category: Income and Poverty Subcategory: People in poverty	16.8% of people	18.9% of people	Albuquerque. I want to help people when I am older, so I hope to work for a nonprofit organization that supports low-income communities. I could have more opportunities for this work in Albuquerque because slightly more people there live in poverty.

Activity Questions

Write a paragraph that explains which city (of your two favorites above) you would choose to move to as an adult. Consider not only why you like the city but also why it is a better option for you than the other city you examined:

Student answers will vary but could include the following: I would choose Las Vegas because I think I would have a better quality of life there: less time traveling to work, and a better chance of having the type of career I want. I also like that Las Vegas has a bigger population than Albuquerque because that probably means there are more things to do for entertainment.

Contact Us

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