Boost Students' Civic and Statistical Literacy: Discover Classroom Resources with the U.S. Census Bureau

STATISTICS IN SCHOOLS

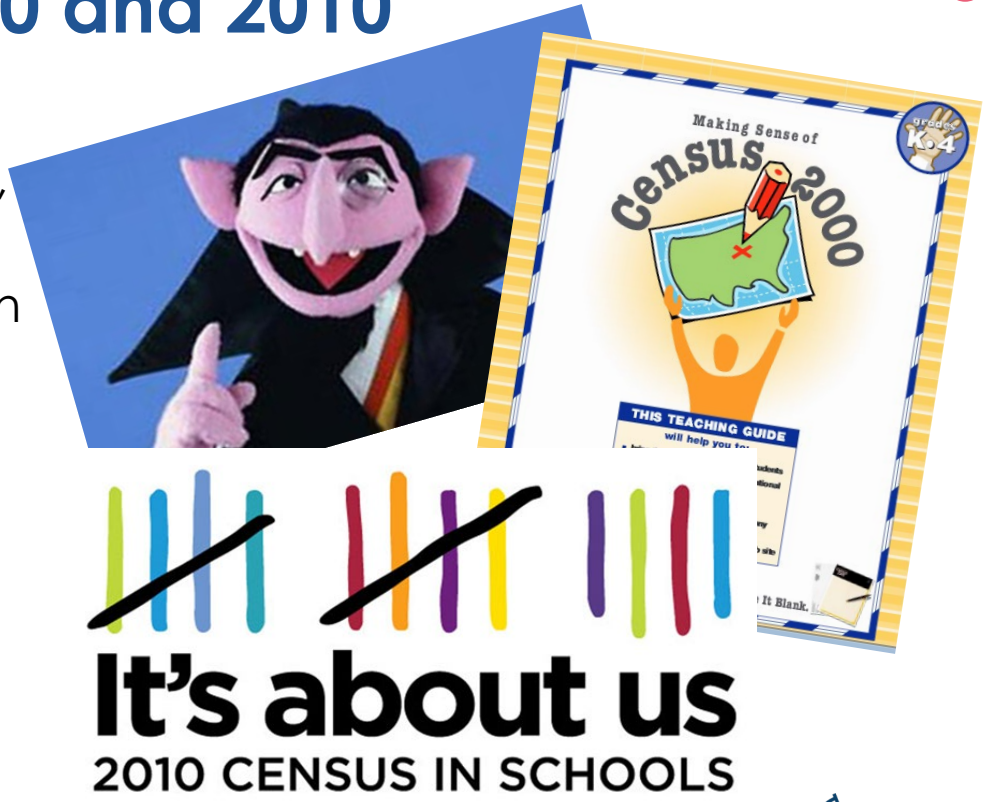
Agenda

- What is the Statistics in School (SIS) Program?
- Activities Overview
- Additional SIS Resources
- Spreading the Word

Census in Schools 2000 and 2010

K-12 program in the U.S., 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



What is Statistics in Schools?

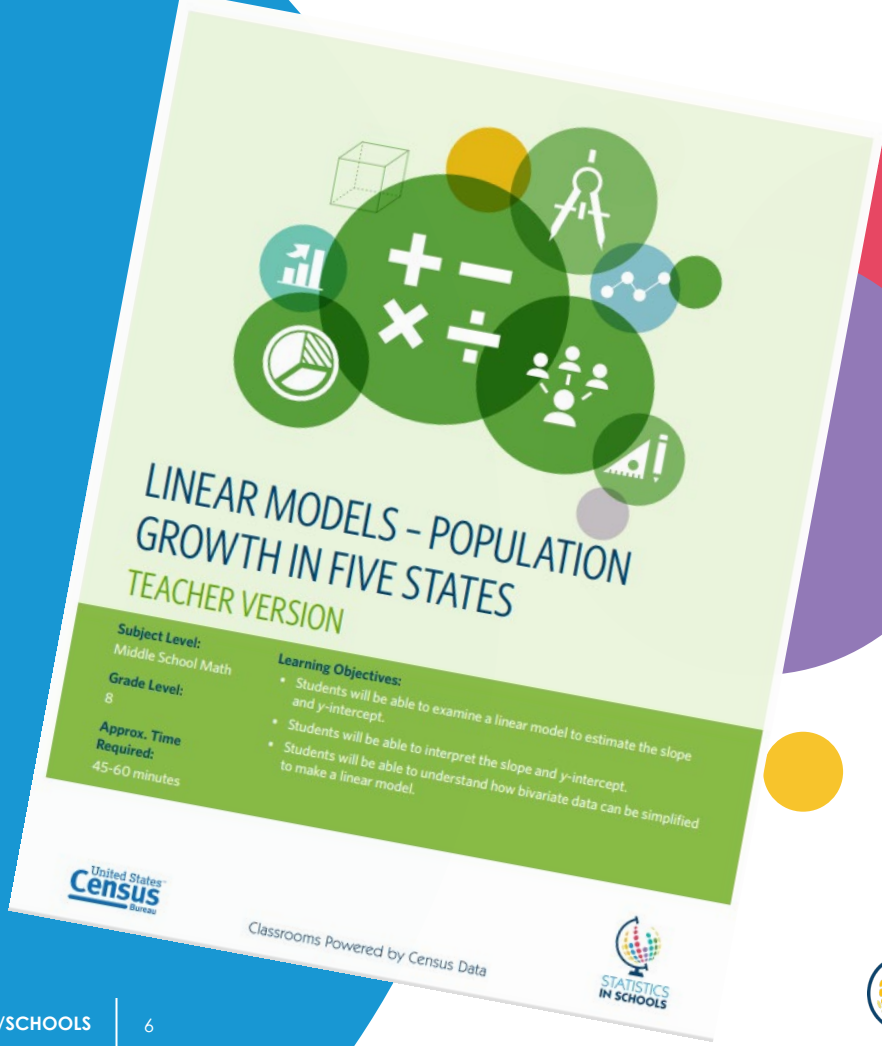
- Statistics in Schools (SIS) is an education program fueled by the U.S. Census Bureau and created by teachers, for teachers.
- The program leverages census data to create engaging, free, and easily downloadable classroom activities for students in grades K through 12.
- SIS is an ongoing program that teachers across the country have been using since 2014, with more than 200 available resources.

SIS Program Goals

- Educate the public, specifically by improving statistical literacy of students.
- Demonstrate applicability and utility of statistics and statistical concepts in educational activities.
- Increase the Census Bureau's brand recognition.
- Improve the public's familiarity with the work of the Census Bureau.
- Encourage public cooperation in Census Bureau surveys and censuses.

Statistics in Schools Activities

- English
- Math
- Social Studies
- Geography
- Sociology



English Activities

- ## Elementary School

  Narratives and Names: This activity serves as an introduction to a narrative writing assignment. Teachers give students an overview of the Census Bureau and students complete a quick write about their name and its history.

- ## Middle School

  Numbers That Tell a Story: Using the State Facts for Students data tool, students explore data about their state and voice their opinions on how the population has changed over time.

- ## High School

  "To Kill a Mockingbird" - An Introduction to 1930s America: This activity teaches students about the setting of Harper Lee's famous novel "To Kill a Mockingbird," which takes place during 3 years (1933–1935) of the Great Depression.

Quick Glance:
Narratives and Names

United States® Census Bureau

STATISTICS IN SCHOOLS

History/Social Studies Activities

- **Elementary School**

  "I Have a Dream" – Learning About Martin Luther King Jr.: Students analyze census data and graphs that demonstrate how certain aspects of the lives of African-Americans have changed since civil rights leader Martin Luther King Jr. delivered his "I Have a Dream" speech in 1963.

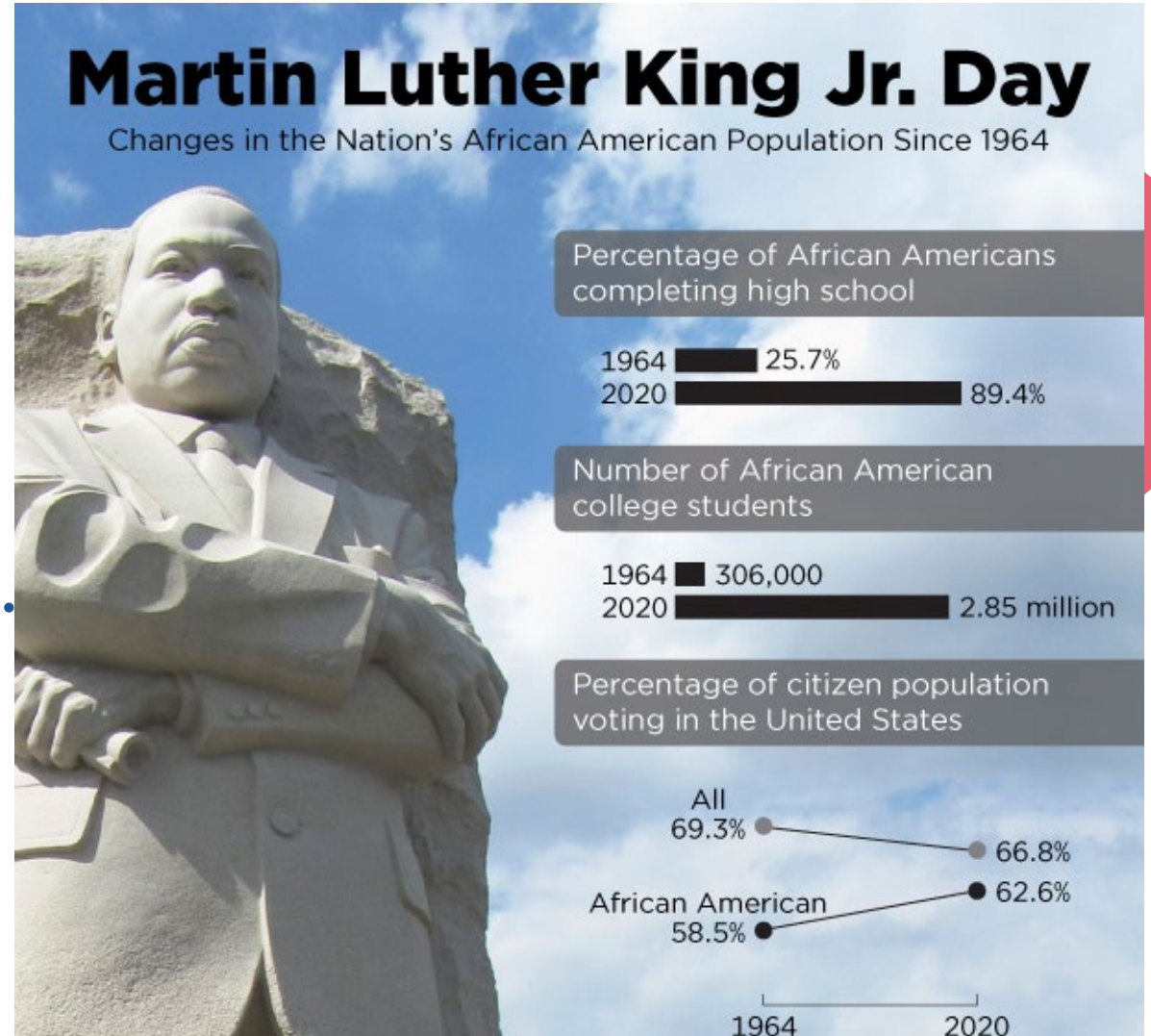
- **Middle School**

  Voting Trends in America, 1964-2020: Students will analyze bar and line graphs showing the percentages of people (by race, age, sex, region, and education) who voted in elections between 1964 and 2020.

- **High School**

  The Progressives and the 1920 Census: Students interpret and analyze a political cartoon about the 1920 Census to better understand how the census was related to the Progressive movement of the early 20th century.

Quick Glance: “I Have a Dream” Learning About Martin Luther King Jr.



United States® Census Bureau

Math Activities

- **Elementary School**

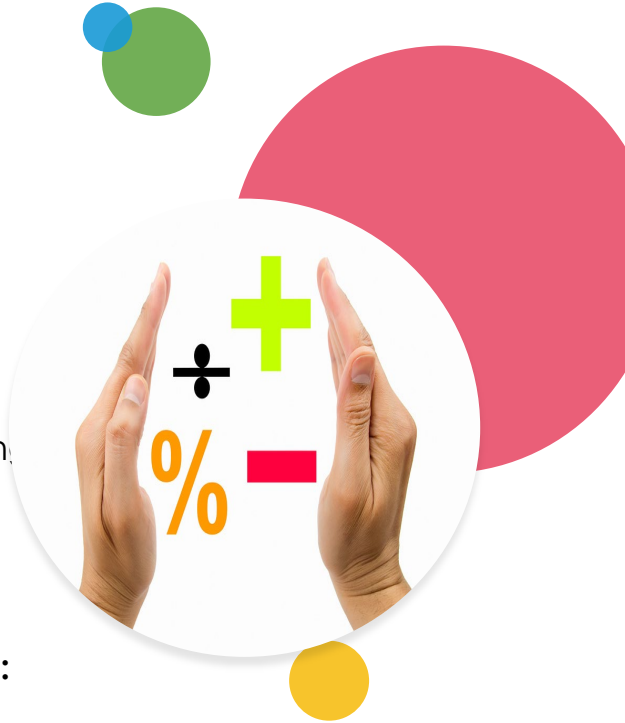
  Changes in My State: Students learn about their state as they collect and organize business information using State Facts for Students, a U.S. Census Bureau data tool.

- **Middle School**

  Fitting a Line to Data - Earnings and Educational Attainment: Students investigate census data on the relationship between earnings and different levels of educational attainment by creating a scatter plot, adding an approximate line of best fit to the plot, and judging the line's accuracy.

- **High School**

  Analyzing Relationships: Marriage, Divorce, and Linear Regression: Students examine census data on marriage and divorce rates for women and men in each state and the District of Columbia.



Quick Glance: How Does Our Class Compare?

Type of Activity	Tally Marks	Total
Sports	𝍸	5
Lessons	𝍸	3
Clubs	𝍸	4
None	𝍸	1

Total girls in our class: 13

STATISTICS IN SCHOOLS

Geography Activities

- **Elementary School**

  Examining Changes to the Environment Through Pictures and Data: Students examine how human actions and population changes can affect the environment by examining a series of photographs that compare famous landmarks across time.

- **Middle/High School**

  Analyzing Correlations of Education and Income: Students explore maps containing census data from 1950 through 2000 and analyze how education levels and median household incomes have changed over time.

Quick Glance:

Examining Changes to the Environment Through Pictures and Data

Photo 1: Times Square 1903

Photo 2: Times Square 2014

Quick Glance:

Examining Changes to the Environment Through Pictures and Data

Item 1: New York City, NY

Category	Historical Data	Current Data
Number of houses	249,991 (1900)	3,618,635 (2020)
Number of businesses	39,776* (1900)	205,592 (2017)
Population	3,437,202 (1900)	8,804,190 (2020)

**Business data in 1900 count only manufacturers (companies who create products), not all retail or service businesses.*

Sociology Activity Examples

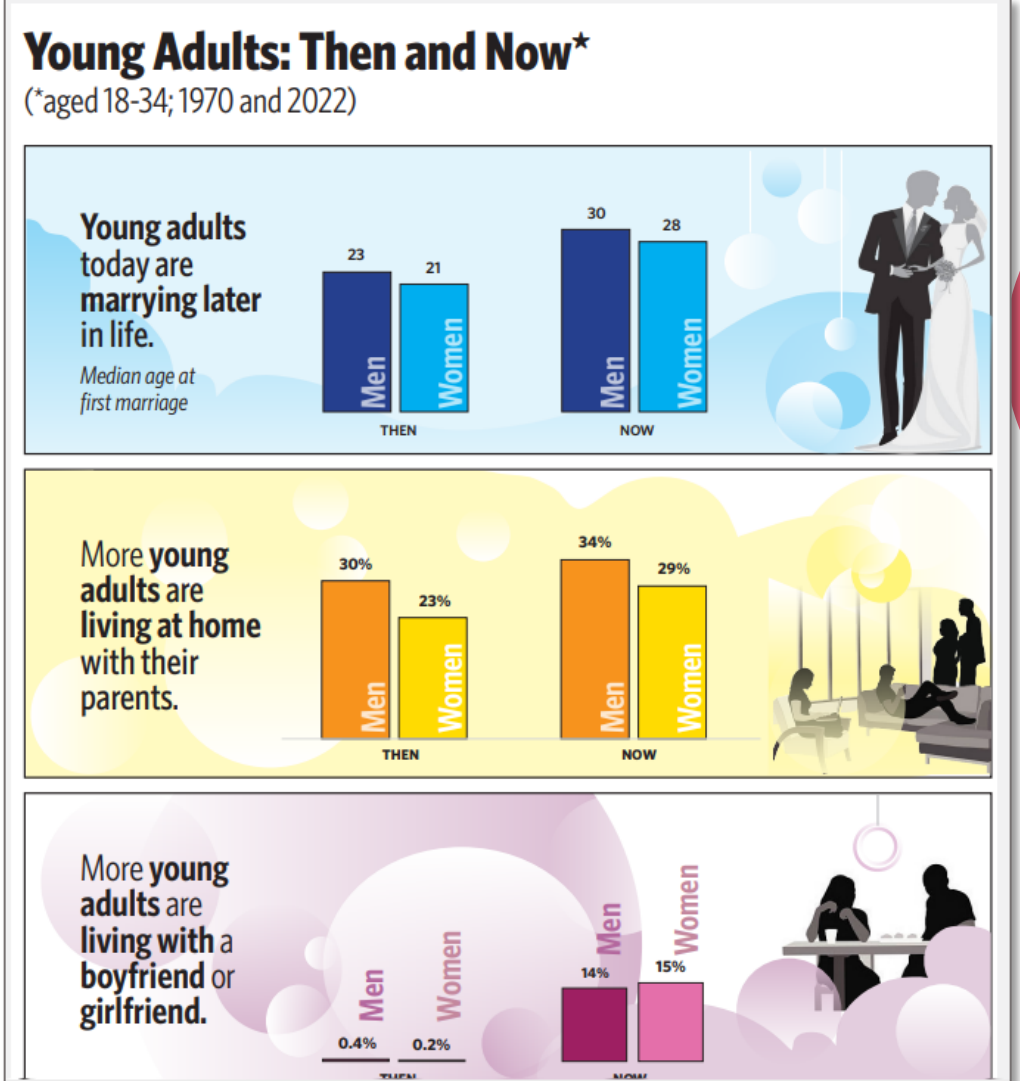
Poverty in America

- Students will explore census data, including infographics and reports, to better understand rates of poverty in the nation.

The Modern Family: Changes in Structure and Living Arrangements in the United States

- Students will learn why families are important social institutions and how family structures, household sizes, and living arrangements have changed substantially since the 1970s.

Quick Glance: How Times Have Changed: An Analysis of Young Adults



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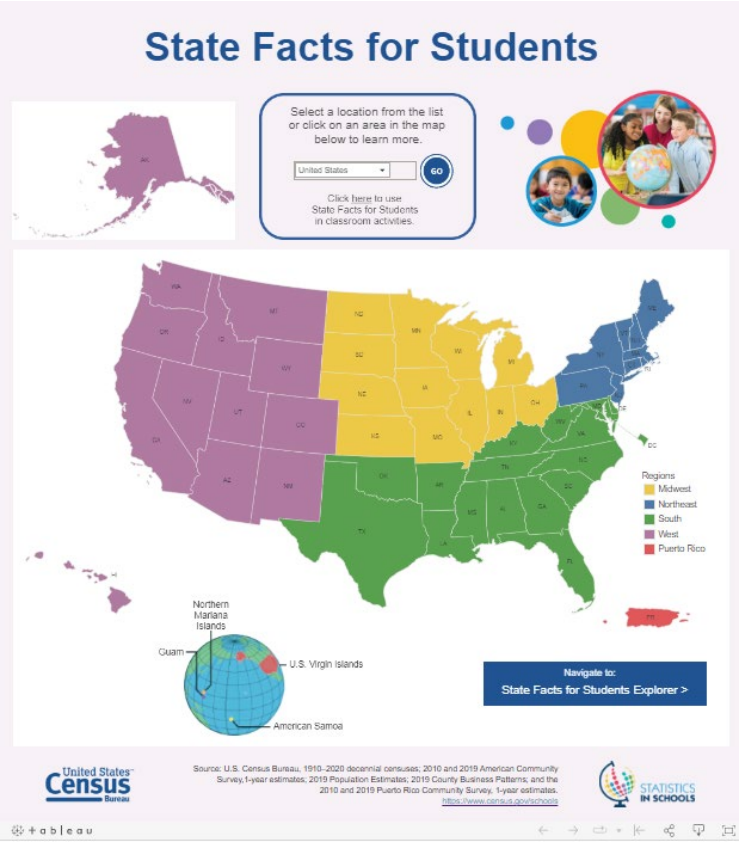
Statistics in Schools Resources

- State Facts for Students
- Fun Facts
- Warm-Up Activities
- Kahoot! Games


State Facts for Students
Select a location from the list or click on an area in the map below to learn more.
United States
GO
Click here to use State Facts for Students in classroom activities.
Regions
Midwest
Northeast
South
West
Puerto Rico
Northern Mariana Islands
Guam
U.S. Virgin Islands
American Samoa
Navigate to:
State Facts for Students Explorer >
Source: U.S. Census Bureau, 1910–2020 decennial censuses; 2010 and 2019 American Community Survey, 1-year estimates; 2019 Population Estimates; 2019 County Business Patterns; and the 2010 and 2019 Puerto Rico Community Survey, 1-year estimates.
https://www.census.gov/schools
+ableau

Return Home
State Facts for Students Explorer
Discover cool stuff about your state, territory, and the country.
Start by selecting a location from the drop-down menu. Then, hover over the images to explore facts unique to that geography, like the population of kids in your state capitals, businesses (such as zoos and amusement parks), and more. When you are done exploring, view and print data tables and graphs.
To find more state facts and related resources, visit the Statistics in Schools site!
Select a location and GO!
Maryland
History
Geography Facts
Kids My Age
I Never Knew That!
View Tables & Charts
Source: U.S. Census Bureau, 1910–2020 decennial censuses; 2010 and 2019 American Community Survey,1-year estimates; 2019 Population Estimates; 2019 County Business Patterns; and the 2010 and 2019 Puerto Rico Community Survey, 1-year estimates.
https://www.census.gov/schools
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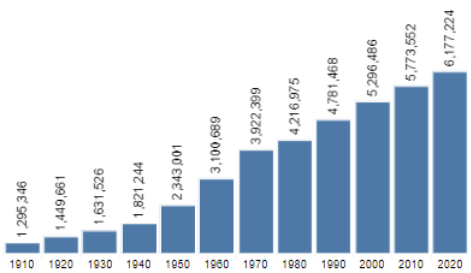
Population (1910–2020)



Kids My Age		2010	2019
8-year-olds	Total	73,171	75,067
	Boys	37,292	38,384
	Girls	35,879	36,683
9-year-olds	Total	75,682	74,804
	Boys	38,703	38,205
	Girls	36,979	36,599
10-year-olds	Total	75,680	73,727
	Boys	38,445	37,528
	Girls	37,235	36,199
11-year-olds	Total	75,343	76,574
	Boys	38,275	38,981
	Girls	37,068	37,593
12-year-olds	Total	74,958	76,406
	Boys	38,515	39,379
	Girls	36,443	37,027
13-year-olds	Total	75,862	75,370
	Boys	38,284	38,442
	Girls	37,578	36,928
14-year-olds	Total	77,186	75,237
	Boys	39,549	38,095
	Girls	37,637	37,142

State Facts for Students: Maryland

Population (2020):	6,177,224
Median age:	39
Persons per square mile:	636
Capital city:	Annapolis
Largest city:	Baltimore
Second largest city:	Frederick

I Never Knew That!

State nickname: Old Line State
State flower: Black-eyed Susan
State tree: White Oak
State bird: Baltimore Oriole
State sport: Jousting
State fish: Rockfish

How People Get to Work	2010	2019
Bicycle	0.2%	0.3%
Carpool	10.7%	8.7%
Drive alone	73.0%	73.9%
Public transportation	8.6%	8.0%
Taxi, motorcycle, or other	0.9%	1.4%
Walked	2.3%	2.2%
Work from home	4.3%	5.5%

Household Computer Use (2019)

Businesses	2010	2019
Amusement parks	9	12
Candy and nut stores	66	66
Dentist offices	2,589	2,611
Fast-food restaurants	4,681	5,491
Fitness and recreational sports centers	665	735
Fruit and vegetable markets	44	51
Ice cream and frozen dessert makers	10	8
Pet and pet supplies stores	165	189
Sporting goods stores	345	286
Toy stores	158	123
Video/disc rental stores	109	4
Zoos and botanical gardens	9	9

Source: U.S. Census Bureau, 1910–2020 decennial censuses; 2010 and 2019 American Community Survey, 1-year estimates; 2019 Population Estimates; 2019 County Business Patterns; and the 2010 and 2019 Puerto Rico Community Survey, 1-year estimates.
https://www.census.gov/schools

Fun Facts

- Student-friendly handouts that tie Census Bureau statistics to holidays, anniversaries, and other observances.
- Designed to be used at varying grade levels and across different subjects.
- Teaching guide with suggested activity ideas for each grade band.

Education on the Rise

Percent of the Black population 25 and over who completed high school or college:

- 2022 – **90%**
- 2021 – **90%**
- 2020 – **89%**
- 2010 – **84%**
- 2000 – **79%**

What's the Age?

Roughly 35 years – The median age of the Black or African American population in 2022.

Occupations

Held by Black people 16 years old and older:

- **About 3 out of 10** (35%) work in management, business, science, and arts occupations (includes elementary and middle school teachers, education administrators, architects, and physicians).
- **About 2 out of 10** (21%) work in service occupations (includes police officers, janitors, and hairdressers/barbers).
- **About 2 out of 10** (21%) work in sales and office occupations (includes receptionists, mail clerks, and library assistants).
- **About 2 out of 10** (19%) work in production, transportation, and material moving occupations (includes painting workers, bus drivers, and packers/packagers).

Black-Owned Businesses

161,031 – The number of Black-owned businesses.

The Health Care and Social Assistance sector (includes dentist and doctors' offices) had the highest number (**45,015**) of businesses with majority Black ownership, making up **30.0%** of all Black-owned businesses.

Population

About 14% or 45 million – The number of Black or African American people in the United States in 2022. These places have among the highest percentage of residents for this racial group:

45%
District of Columbia

38%
Mississippi

Birthplace Populations of Famous African Americans

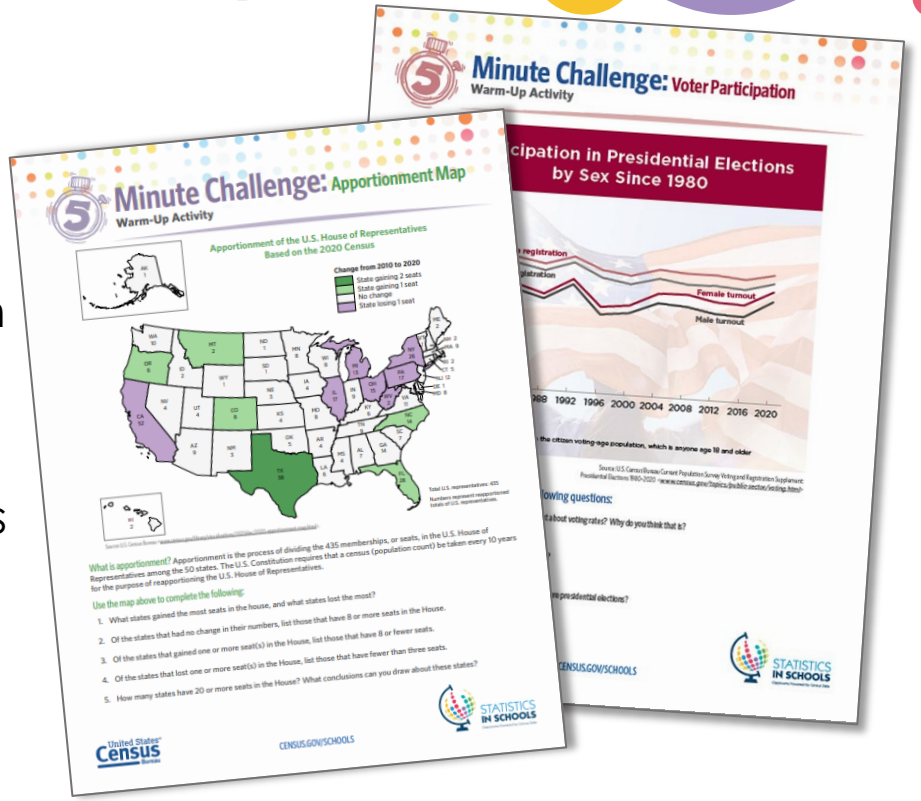
- **Malcolm X** – Omaha, Nebraska (Pop. – **486,051**)
  American Black Muslim minister and human rights activist who was a prominent figure during the civil rights.
- **Maya Angelou** – St. Louis, Missouri (Pop. – **301,578**)
  Her work as an accomplished poet, memoirist, playwright, and civil rights activist has been widely recognized.
- **Arthur Ashe** – Richmond, Virginia (Pop. – **226,610**)
  First Black player selected to the U.S. Davis Cup team; only Black man ever to win the singles title at Wimbledon, the U.S. Open, and the Australian Open.

United States® Census Bureau

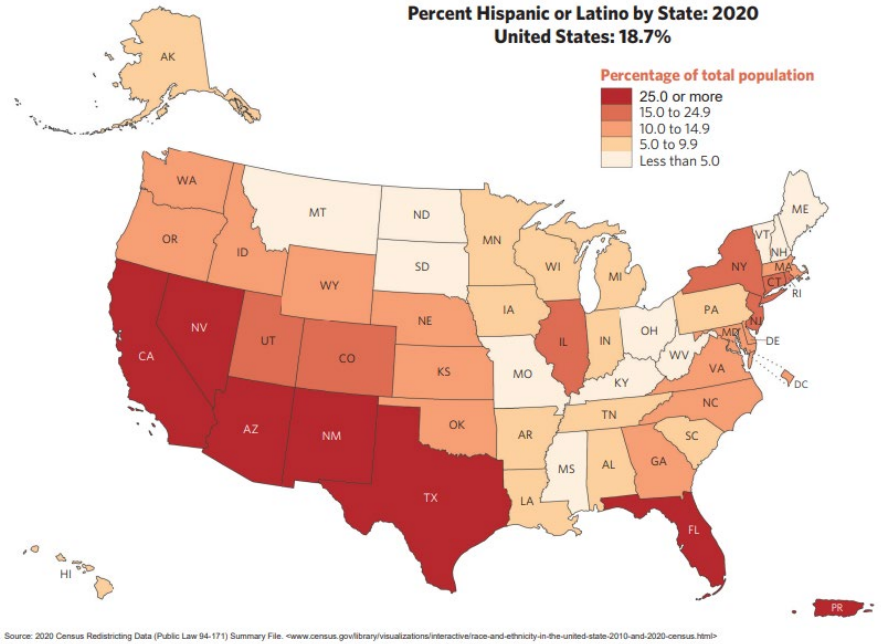
STATISTICS IN SCHOOLS

5 Minute Challenge Warm-Up Activities

- What Is the Hispanic or Latino Population in Your State?
- Apportionment Map
- Exploring Centers of Population Through the Decades
- Honoring Those Who Served
- How Many U.S. Representatives Does Your State Have?
- Voter Participation



5-Minute Challenge:
What is the Hispanic or Latino Population in Your State?



Source: 2020 Census Redistricting Data (Public Law 94-171) Summary File. <www.census.gov/library/visualizations/interactive/race-and-ethnicity-in-the-united-state-2010-and-2020-census.html>

Question Examples:

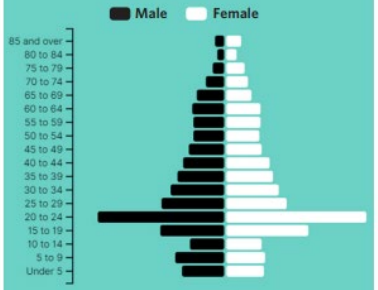
1. How many states had Hispanic or Latino populations that accounted for 25.0 or more percent of their total population?
2. How many states had Hispanic or Latino populations that made up only a 5.0 percent or less portion of their population?

5 Minute Challenge:

Exploring Population Pyramids Across U.S. College Towns

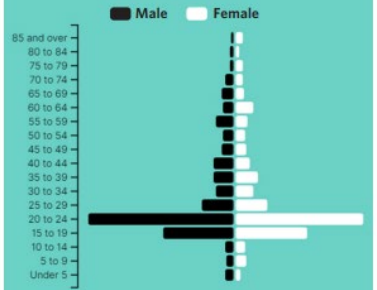
Warm-Up Activity

Columbia, MO is home to Columbia College, Steven's College, and the University of Missouri



Columbia, Missouri

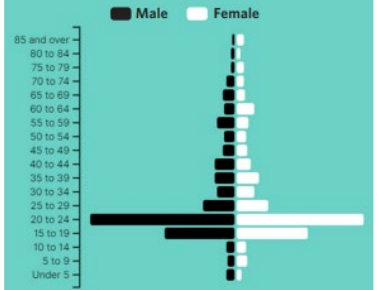
Ithaca, NY is home to Cornell University and the Ithaca College



Ithaca, New York

About 30% of Ithaca's residents walk to work

compared to 2.5% nationally



Ithaca, New York

Source: 2022 ACS 5-Year Estimates Subject Tables

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U.S. Census Bureau
Statistics in Schools Website
K!A
Premium partner
Kahoots
24
Plays
58.9k
Players
192.6k
Content
About
Community
New
Featured kahoots
Top picks
Making Herstory: Celebrating Women's History Month
17 questions
Making Herstory:...
uscensusbur... • 15.1k players
Top picks
Shamrocks and Clovers: Celebrate Irish-American Heritage Month
17 questions
Shamrocks and Clovers:...
uscensusbur... • 17.7k players
Kahoot! Game
Test Your Knowledge on Facts About Black History Month
18 questions
Test Your Knowledge on...
uscensusbur... • 8.9k players
Kahoot! Game
Census Bureau Winter Wonderland!
18 questions
Census Bureau Winter...
uscensusbure... • 1.3k players

Kahoot!

Making Herstory: Celebrating Women's History Month

How many females (of all ages) were there in the United States in 2021, compared to 164.3 million males?

Skip

25

0

Answers

▲ 100.3 million

◆ 167.5 million

● 150.7 million

■ 189.6 million

Kahoot! *Fast Facts*

309.2K current players and 104.2K current plays

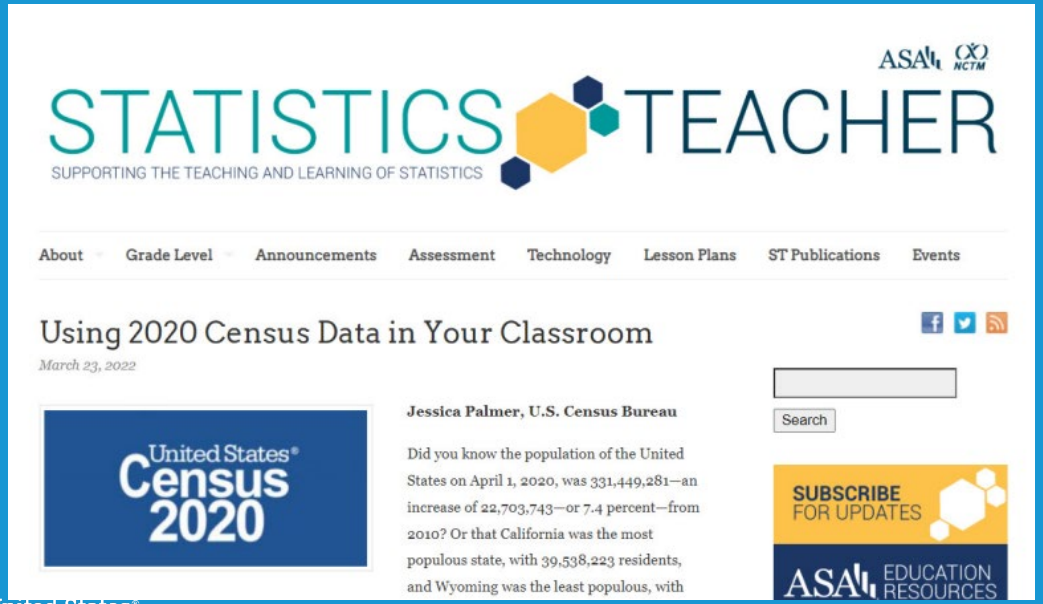
Top 5 games by participating players:

- Hispanic Heritage Month Trivia
- Learn About U.S. Holidays
- Making Herstory: Celebrating Women's History Month
- Shamrocks and Clovers: Celebrate Irish American Heritage Month
- Test Your Knowledge on Facts About Black History

Winter Break: Activities from Statistics in Schools Keep Learning

By Sala Green

SIS Outreach



STATISTICS TEACHER

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Using 2020 Census Data in Your Classroom

March 23, 2022

United States Census 2020

Jessica Palmer, U.S. Census Bureau

Did you know the population of the United States on April 1, 2020, was 331,449,281—an increase of 22,703,743—or 7.4 percent—from 2010? Or that California was the most populous state, with 39,538,223 residents, and Wyoming was the least populous, with

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ASA EDUCATION RESOURCES

Email Marketing and Social Media for Partners and Educators

Statistics in Schools Black History Month Resources Social Media Toolkit for Partners

February 2023

STATISTICS IN SCHOOLS

Sample Newsletter Blurbs

Sample 1:

'Tis the Season for Statistics!

Get your students into the holiday spirit with free holiday-related stats and resources from the U.S. Census Bureau's Statistics in Schools (SIS) program.

Students will discover festive Census data like the populations of Santa Claus, Indiana, and Rudolph, Wisconsin, and more with resources that enhance learning in a variety of subjects. Get started with SIS today at census.gov/schools.

United States® Census Bureau

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STATISTICS IN SCHOOLS

Classrooms Powered by Census Data

United States® Census Bureau

Statistics in Schools brings subjects to life using real-world Census Bureau data to create materials for use year after year at all grade levels.

Moving Into March With Statistical Resources

Happy March! This month share Statistics in Schools (SIS) resources about Women's History Month, Reading Across America, Pi Day and more. Our activities help improve the statistical literacy of students while they have fun exploring things like the number of U.S. businesses owned by women, college completion rates over time, scientific notations, and more.

Women's History Month

Our new resources highlight women's rights issues and statistics like the total population of women in the United States, the percent of women working in STEM (Science, Technology, Engineering and Mathematics) occupations and more. What better way to celebrate this month's special events?

Fun Facts: Women's History Month

***New* Women's History Month Fun Facts!**

Did you know there were about 1.7 million more females than males ages 85 and older in the United States in 2021? This new SIS resource offers students fascinating facts about U.S. women.

Learn More

Women's Roles in Antebellum America

Share our history activity that examines an 1850 Census questionnaire and 1851 political cartoon to help students understand challenges women faced during the antebellum period (1832-1860).

Learn More

STATISTICS IN SCHOOLS

Greetings SIS Ambassadors!

What do women, Pi, and four-leaf clovers all have in common? March! In this quarterly newsletter, you'll discover new free learning tools from ready-to-play Kahoot! games for Women's History Month and Irish-American Heritage Month to math activities for Pi Day designed to boost students' statistical literacy.

Fun Fact: *Did you know there were about 168 million women living in the United States – 50.5 percent of the of the total population – in 021?*

…king Herstory: Celebrate …men's History Month With …istics!

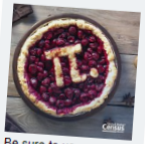
…ot! Game …g Herstory: …rating Women's …y Month

…men's History Month and …omen's Day, we have a brand …ne and Fun Facts …ing the achievements of U.S. …can review the Fun Facts …game to test their

Ambassador Tip: *Share this math joke with your students!*

What do you get when you take the sun and divide its circumference by its diameter? ***(A:*** *Pi in the sky)*

Celebrate Pi Day – March 14th!



Be sure to use our math activity, Calculating with Scientific Notation - Comparing Populations, to spark middle school students' curiosity about this fun-filled math holiday. *(Hint: You may want to sweeten the day by adding some pie to the equation!)* Students can use population data to read and write numbers in scientific notation and compare that data for states and decades.

Learn More

U.S. Census Bureau

a day ago

October 14 is #NationalDessertDay! 🥧🍦🍪

#Teachers, have your #students explore #CensusData with our State Facts for Students #DataTool to discover how many #IceCream and frozen #dessert makers are in their state.

Download: https://www.census.gov/.../data-tools/state-facts.html

United States® Census Bureau

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SIS Teacher Ambassador Program

- **What:** A corps of teacher champions who serve as advocates for using census data in the classroom.
- **Who:** K-12 teachers, Librarians, Counselors, Math Instructional Specialists, Curriculum Specialists, and Substitutes
- **Where:** The Ambassador Program currently has **53** active ambassadors across **32** states and territories

"I have used the SIS info for the past two years. It is GREAT to help students learn to **interpret graphic information** which is a huge part of state tests. We have used the graphics to play different **trivia games** as well. Students have made some interesting connections between what they know about their neighborhoods and the graphics they are shown."

K. Chaney, Statistics in Schools
Teacher Ambassador, Arkansas

STATISTICS IN SCHOOLS

SIS National Education Partners

- Ongoing relationships with 37 national education partners:
  - **National Council of Teachers of Mathematics**
  - **National Council of Geographic Education**
  - **American Sociological Association**
  - **Association for Middle Level Education**
  - **iCivics**
  - **Department of Defense Education Activity (DoDEA)**

Social Media and Blog Posts

STATISTICS IN SCHOOLS
Classrooms Powered by Census Data

Census Bureau Video Guide to Black History Month Content

The Census Bureau's Statistics in Schools program has created a video guide to their Black History Month resources and content. Watch the video and learn how you can incorporate their resources in your classroom!

ASA NCTM
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ASA EDUCATION RESOURCES

IDEAS FOR SUMMER LEARNING WITH REAL LIFE DATA + KAHOOT!

By: Kimberley Glascoe, U.S. Census Bureau Statistics in Schools Program

Did you know Texas had the most amusement parks in 2020? Or that there were 441 ice cream and frozen dessert makers in the United States in 2019? Summer is here and now middle grade teachers can add another digital resource to their students' summer learning toolkit: a variety of challenging online Kahoot! games from the U.S. Census Bureau's Statistics in Schools (SIS) program. These games can help your students beat the summer slide by exploring kid-friendly topics like U.S. holidays and observances, businesses, history, and the diverse makeup of our country through real-life data.

These educational games were designed to help boost the statistical literacy of K-12 students while introducing them to working with and understanding Census Bureau data that will help sharpen their data literacy skills before returning to school in the fall. These skills help prepare them for future learning and careers in an increasingly data-driven world. Educators can use these challenges and other free SIS resources to supplement what they are reviewing in summer school, or send home with students to encourage learning over the summer break.

Many of these data-driven games align with common student learning objectives, such as reading and

STATISTICS IN SCHOOLS

Valentine's Day Fun Facts

Great for a K-12 warmup! This activity and teacher guide—spanning history, math and English language arts—will show students that this holiday is more than a box of chocolates.

Learn More

SHARE

Winter Break: Activities from *Statistics in Schools* Keep Kids Learning

By Sala Green

Thank You!

For More Information

Contact Statistics in Schools:
statsinschools@census.gov
301-763-4030