

# U.S. Census Bureau: Statistics in Schools

## Program Overview



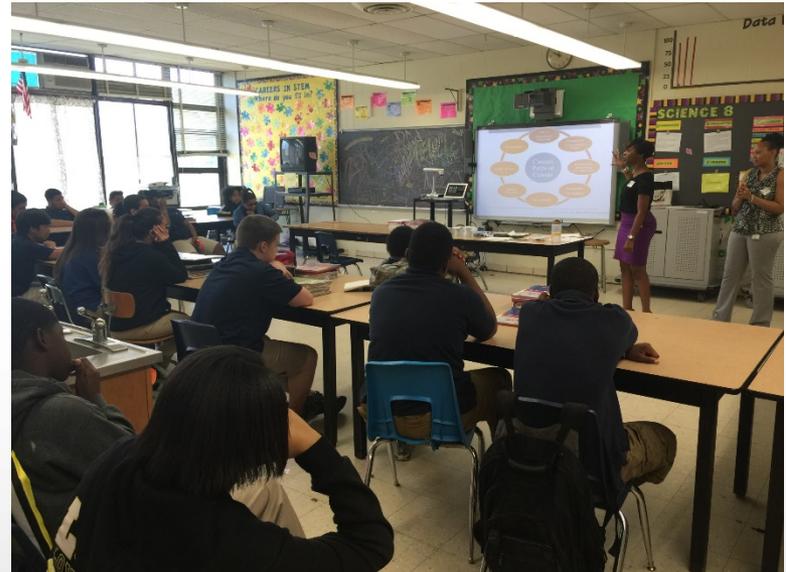
**STATISTICS  
IN SCHOOLS**

Classrooms Powered by Census Data



# What is Statistics in Schools?

- It is a free program.
- It provides opportunities to teach statistics in various subjects.
- It is designed to support teachers' existing lesson plans.
- The program started in 2000 as Census in Schools.
- The program was revised over the last few years.



# Statistics in Schools: Preparing Students for a Data-Driven World



# Purpose of Statistics in Schools

- Encourage teachers of all subjects to incorporate statistics in their lessons.
- Establish a connection now with the next generation of census respondents.



# Why Use Statistics in Schools?

- It gives teachers tools to incorporate statistics into any class.
- It uses technology to teach statistics.
- It can be extended or modified easily.
- It matches activities with relevant education standards and guidelines.
- It is a free, easy-to-use resource.
- It is backed by the U.S. Census Bureau.



# 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

# Statistics in Schools Website

Search entire SIS site

STATISTICS IN SCHOOLS

Activities  
By subject and grade

Resources  
For teachers and students

Standards  
Common Core, GAISE, Other

About  
Contact Information

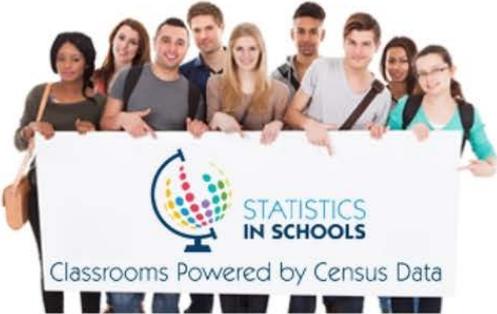
Search

Census.gov

## Statistics in Schools



Educate your students about the value and everyday use of statistics. The Statistics in Schools program provides resources for teaching and learning with real life data. Explore the site for standards-aligned, classroom-ready activities.





**Activities**

By subject and grade

**Resources**

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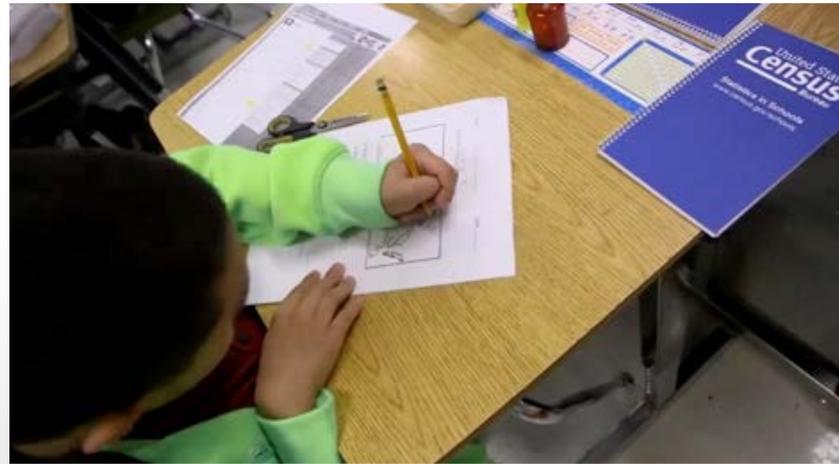


- Classroom activities are free.
- Activities are organized by grade, subject, and education standard.

# Grade Levels and Subjects

## Classroom activities available for:

- Elementary school
  - ✓ Math
  - ✓ History
- Middle school
  - ✓ Math
  - ✓ History
- High school
  - ✓ Math
  - ✓ History
  - ✓ Geography
  - ✓ Sociology





**Activities**  
By subject and grade

**Resources**  
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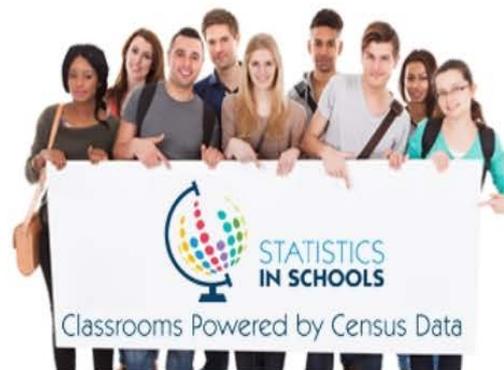
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- Resources include:
  - ✓ Maps
  - ✓ News articles
  - ✓ Games
  - ✓ Infographics and data visualizations
  - ✓ Searchable data tools

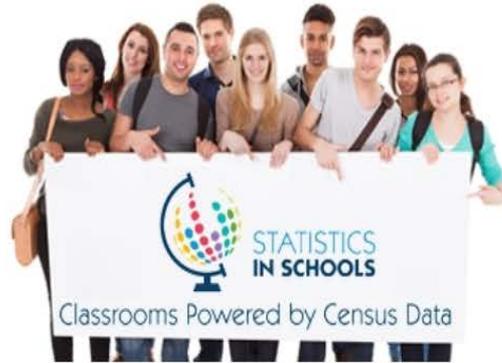


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- The activities correspond with major, specified education standards and guidelines.
- Many of the activities address multiple standards and guidelines.



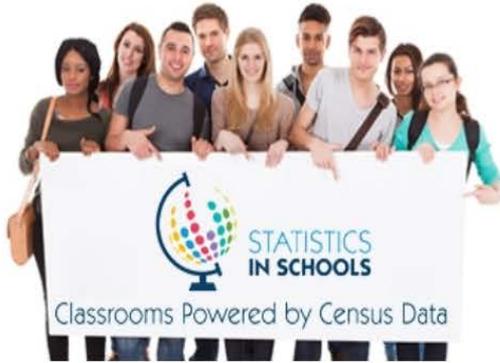
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STATISTICS  
IN SCHOOLS



About Us

SIS in the News

Census 101 for Students

Teacher's Guide to Tools

Benefits for Teachers

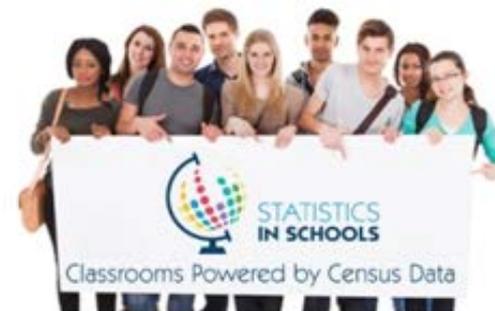
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- Stay up to date on Statistics in Schools:

<https://www.census.gov/schools/about/contact.html>

# Census Bureau 101 for Students

Our “*Census Bureau 101 for Students*” handout includes information about:

- The first census and its purpose
- The progression of the decennial census
- Other prominent Census Bureau surveys
- Available at:

<https://www.census.gov/schools/about/students101.html>



The graphic features a cluster of colorful circular icons at the top, including a family, a woman, a bar chart, a map of the United States, a school bus, and a group of children. Below the icons is the title "CENSUS BUREAU 101 FOR STUDENTS" in blue and black text.

## CENSUS BUREAU 101 FOR STUDENTS

The U.S. Census Bureau is the leading source of information on the nation's people, places, and economy, providing data about our country's population size and growth as well as detailed portraits of the changing characteristics of our communities. The Census Bureau, part of the U.S. Department of Commerce, was created to address language in the Constitution on America's need to count its population.

America's founders recognized that this information was needed to effectively serve its people. The data collected as part of the first count in 1790 — a six-question survey — expanded in the following years to include information on the economy, immigration, migration, and agriculture. One of the most important ways all of this information has been used is to determine apportionment of the seats in the U.S. House of Representatives.

The count of the U.S. population — carried out every 10 years — is called the Decennial Census of Population and Housing. During the decennial census, the Census Bureau contacts every household, asking questions such as:

- How many people live or stay in this house, apartment, or mobile home?
- What is the name of the person who owns this house, apartment, or mobile home?
- How old is the person who owns this house, apartment, or mobile home? When is his or her birthday?

United States  
**Census**  
Bureau

census.gov/schools

STATISTICS  
IN SCHOOLS

# Top 10 Benefits for Teachers

Our “*Top 10 Benefits of Statistics in Schools for Teachers*” handout highlights that:

- Activities were developed by teachers, for teachers.
- The program promotes cross-curricular education.
- Activities can augment teachers’ curriculum.
- The program can easily be expanded or modified to meet students’ skill levels.
- Activities correspond with specified, relevant standards and guidelines.
- All resources are completely free and ready to use.
- Available at:

<https://www.census.gov/schools/about/top10.html>

**TOP 10 BENEFITS OF STATISTICS IN SCHOOLS FOR TEACHERS**

The Statistics in Schools (SIS) program of the U.S. Census Bureau provides data, tools, and activities that educators can incorporate into their lessons to help teach statistics concepts and data analysis skills to students. The activities and resources are segmented by subject (geography, history and social studies, mathematics and statistics, and sociology) and grade (from kindergarten through high school) so statistics education can be brought to any classroom.

Here are the top 10 reasons the SIS program is good for the classroom:

- 1 The online resources are free for K-12 teachers.**  
Educators can access, at no charge, more than 100 downloadable activities and resources on the website: [www.census.gov/schools](http://www.census.gov/schools). The activities on the website are searchable by grade, school subject, topic, and education standard.
- 2 Experts from the U.S. Census Bureau contributed to the program.**  
The Census Bureau, which launched SIS, is the primary source of economic and demographic data for the United States. Census Bureau statistical experts were involved in the creation of the program activities, making SIS uniquely qualified to support statistics education.
- 3 The program promotes cross-curricular education.**  
SIS uses a broad array of Census Bureau data to provide activities and resources for courses in geography, history and social studies, mathematics and statistics, and sociology.
- 4 SIS offers a number of resources and tools, including:**
  - Activities
  - Maps
  - News articles
  - Videos
  - Games
  - Infographics and data visualizations
  - Data tools that reveal population statistics by sex, age, ethnicity, and race

United States Census Bureau  
census.gov/schools  
STATISTICS IN SCHOOLS

# Coming Soon

Statistics in Schools has a number of new activities and resources coming soon:

- English Activities
- New Geography Activities
- Fun Facts
- Warm-Up Activities

**Fun Facts: Thanksgiving Day - 4<sup>th</sup> Thursday of November**

**A History of Giving Thanks**

- In 1620, the Pilgrims—early settlers of Plymouth Colony—held a feast that led to another landmark for our nation.
- The story of thanks and the feast has remained the center of the event ever since, a national holiday on 4<sup>th</sup> of October 1941. It was declared a national holiday in 1941.
- Like President Franklin D. Roosevelt, did you know that Thanksgiving Day should always be celebrated on the fourth (not the third) Thursday after the first of November each fall (except in Massachusetts, December 6<sup>th</sup> Thursday of November 5<sup>th</sup> or 9<sup>th</sup> Thursday).

**Thanksgiving's Native American Roots**

- 4,000: The number of members of the Wampanoag American Indian tribe as of 2010. The Wampanoag attended the first Thanksgiving, playing a role in the historic event. In 2010, roughly half of them live in Massachusetts.

**Turkey Towns and Cranberry Counties**

4 The number of places in the United States named after the turkey's traditional main course.

- Turkey Creek, Arizona (Population - 495)
- Turkey, Texas (Population - 367)
- Turkey Creek, Louisiana (Population - 357)
- Turkey, North Carolina (Population - 280)

4 The number of census places in the United States named Cranberry is a popular side dish at Thanksgiving.

- Most popular: Cranberry Township, Butler County, Pennsylvania (Population - 16,214)
- Second most popular: Cranberry Township, Morgan County, Tennessee (Population - 4,432)

**Food for the Big Feast**

There were...

- 44,246 eggs, tamales and other grocers (except cornmeal) items
- 5,345 baked goods stores
- 2,792 hot and vegetable markets
- 46,000 meat stores

What's a Pilgrim's favorite kind of music?  
Plymouth Rock

Source: American Factfinder (U.S. Census Bureau) 2010 Census, 2010 American Community Survey, 2010 Population Estimates and 2010 Long-Form Tracts and a full U.S. Department of Agriculture, Agricultural Statistics Service.

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**5 Minute Challenge: Honoring Those Who Served**  
Warm-Up Activity

**Percented by state**

- 8.5% or more
- 7.5% to 8.4%
- Less than 7.5%

Source: 2010 American Community Survey  
www.census.gov

In the following table, list the states/territories with the largest percentages of veterans (9.5 percent or more) in the top row and those with the smallest percentages of veterans (less than 7.5 percent) in the bottom row. Don't forget to look at Alaska, Hawaii, and Puerto Rico!

States/Territories With 9.5% or More Veterans Populations	
States/Territories With Less Than 7.5% Veterans Populations	

Now answer the following questions:

1. Do you see any trends in the data? If so, describe them.
2. Review the percentage of veterans who live in your state. Are you surprised by the percentage? If so, or if not, describe why.
3. What is one question you have about the information displayed on this map?

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# Tour of the Website



## Math

Teach your students about the importance of math and statistics with resources that engage students by using real life data. Click below on the specific grade levels to discover activities on a variety of topics.



All Grades K - 5 Grades 6 - 8 Grades 9 - 12

<p><b>Using Fractions to Compare Amusements Parks By States</b> Students will predict how many amusement parks are in their state.</p>	<p><b>Analyzing Relationships: Marriage, Divorce, and Linear Regression</b> Students will examine census data on marriage and divorce rates for women and men in each state and the District of Columbia.</p>	<p><b>Immigration Nation</b> Students will examine data of the number of immigrants to the United States, to create bar graphs and line graphs with appropriate scales.</p>	<p><b>Let's Count!</b> Students will count items in their classroom, record this information in a data table, and analyze and understand uses for such data.</p>
<p><b>Does the Percentage of People Who Walk to Work in Cities Vary?</b> Students will create box plots to make inferences about the percentages of people who walk to work in cities of different population.</p>	<p><b>Describing and Comparing Data Distributions</b> Students will use data to compare and contrast the distributions of variables in graphs, analyzing the shape, center, and spread of each.</p>	<p><b>How Are Single-Parent Households Distributed Across the United States?</b> Students will create and compare dot and box plots that show the percentages of single-mother and single-father households.</p>	<p><b>Frequency Distributions</b> Students will compare and contrast the frequencies of Hispanic or Latino population percentages for 50 states and the District of Columbia.</p>

Let's visit Statistics in Schools at:

[census.gov/schools](https://census.gov/schools)

# Questions

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# Thank You for Your Time

