

# Using the Census Bureau's Statistics in Schools Program to Promote Awareness of Equity, Diversity and Inclusion Among Kids

2021 Oregon Library Association Conference

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# Agenda

- What is the Statistics in School Program (SIS)
- SIS Resources for Librarians
  - Activities on Equity, Diversity and Inclusion
  - Other Resources – Activities and Data Tools
  - At Home and Distance Learning Resources
- SIS Website Live Demo
- New Activities
- Conclusion and Q&A

# Overview and Goals

- Become more knowledgeable about the free SIS materials available
  - Easy to adapt for at-home or distance learning
- Become more knowledgeable about the Census resources and tools available to support library programming
- Learn how SIS activities can be used to have discussions on understanding and appreciation for diversity within your local communities



# 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 pre-K through 12.
- SIS is an ongoing program that teachers across the country have been using since 2014, and with the 2020 Census-related materials we created, more than 200 resources are available.





# 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

# SIS and the 2020 Census

- **67 activities** for grades pre-K through 12 that challenge students to use data in interactive ways to build skills in subjects such as history, math, geography, and English. Each activity includes a teaching guide and a student worksheet.
- **Large, colorful maps** with fun, census-based facts about the country and its territories, including state-by-state comparisons.
- A **storybook** with activities and a **music video** for children in preschool and early grades.
- Engaging **videos** created specifically for elementary, middle, and high school grade bands.
- **Resources** for English language learners and adult English as a second language students.



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# Elementary School Activities

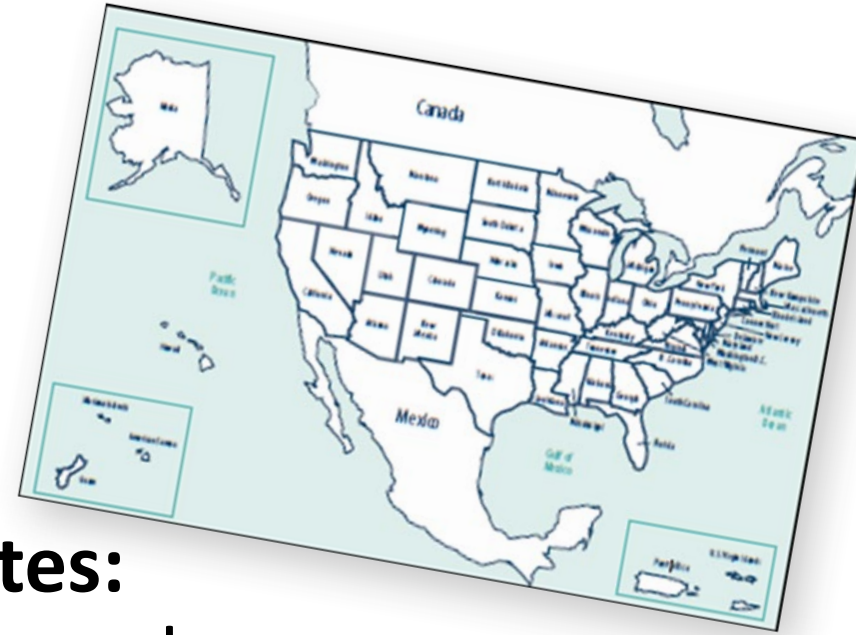
- **How Does Our Class Compare?:** Students will collect, organize, and compare data about the number of girls and the number of boys in their classroom. Then students will compare these classroom data with U.S. Census Bureau data for girls and boys across the United States.
- **Diversity: Differences in Communities:** Students will learn what it means to have a diverse country. First, students will explore the idea of diversity. Then they will examine diversity in their classroom, in their state, and in three other states across the country.





# Middle School Activities

- **Getting to Know Your Neighbor:** Students will create a population pyramid and examine data about their school's county.
- **Diversity: Languages Spoken in the United States:** Kids will learn how communities thrive with a broad diversity of residents. The worksheet focuses on simple data points that show the distribution of people who speak only English at home and people who speak a language other than English at home throughout their state and country.



# Highschool Activities

- **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.
- **Diversity: Minority Entrepreneurship and the Economy:** This activity will foster a discussion on diversity of race, ethnicity, sex, and veteran status through the lens of entrepreneurship. Kids will examine minority-owned business growth over the past decade and how it has affected our nation.



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# Statistics in Schools Resources

- Data Tools
- Fun Facts
- Historical Documents and Images
- Maps
- Videos
- Visualizations
- Warm-Up Activities



The U.S. Constitution requires that a census (population of U.S. House of Representatives. Apportionment is the process of dividing the U.S. House of Representatives among the 50 states.



Imagine you just received money to start a toy manufacturing company anywhere in the United States!  
 1. Based on the map of the toy, doll and game manufacturing establishments, write a paragraph explaining where you would start your company and why. (Four answer should take into account the number of manufacturers already located in that state.)  
 2. Write down five questions that you could ask to help you make your decision.

## Fun Facts: St. Patrick's Day - March 17

### A History of St. Patrick's Day

- Originally the holiday was to honor St. Patrick who introduced Christianity to Ireland in the 5th Century later evolving into a celebration of all things Irish.
- The World's first St. Patrick's Day parade occurred on March 17, 1762 in New York City.
- In 1991 Congress proclaimed March as Irish-American Heritage Month.

### Golden States of Irish Ancestry

Total of 10 or 32.3 million - The number of U.S. residents who claimed Irish ancestry in 2016. These states have the highest percentage of Irish ancestry

Massachusetts	New Hampshire	Maine Island
21.2%	20.9%	18.2%

### Lucky Charms

Educational Attainment of people of Irish ancestry, 25 years and older:

- 36% - Percentage of those with a bachelor's degree
- 94% - Percentage of those with at least a high school diploma

Occupations held by Irish-Americans, 16 years old and older:

- 43% - Work in management, business, science, and arts occupations
- Almost 25% - Work in sales and office occupations

### 4-Leaf Clover Word Search

Find 15 words related to St. Patrick's Day and Irish culture.

W Q P S L P A R A D E I E P Z  
 Q C R X Y E R N M Z P Y U F  
 H C R A M A F G M I P C J J  
 I D I I V D Y I S P M E A S S  
 T A H N Q I F I G J Y Z B N A  
 C L V B C L W A C C T D B W I  
 Q E I O S O B D F I R E A L N  
 T P R W H V I T T E R G U T  
 N R I S C R A E S L V A E C A  
 O E S X Z D M Q E O J K  
 J C H P V U F D R C L R T Y E  
 Q H M D B S A M F O C I S Z R  
 Z A Y L K X W Y G E C C V I O  
 Y U I H G R E N Z B K H J P Q  
 Q N G M G A E L I C P T Q

### Everything Irish!

- 20,590 - Estimated number of U.S. residents who spoke Irish Gaelic
- 49 years old - Median age of those who claimed Irish ancestry
- 151 - The number of synthetic dye and pigment manufacturing companies in the U.S. As an annual tradition to celebrate St. Patrick's Day, the Chicago river is dyed green.
- \$37 billion - Value of goods imported from Ireland in 2017

Sources: Data on this page comes from the U.S. Census Bureau's 2016 American Community Survey 1-Year Estimates, Detailed Language Spoken at Home and Ability to Speak English for the Population 1 Year and Over, 2009-2011, Trade in Goods with Ireland, and 2015 County Business Patterns.

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

STATISTICS IN SCHOOLS United States Census Bureau

Classrooms Powered by Census Data

Happy Valentine's Day

# Fun Facts: African American (Black) History Month



## What's the Age?

Roughly 34 - Median age of the African American population in 2019.

## Educational Attainment

Of the Black or African American population 25 years and older...

- **About 1 out of 10** (13%) have less than a high school diploma.
- **About 3 out of 10** (32%) are high school graduates. (Includes equivalency)
- **About 3 out of 10** (33%) have some college or associate's degree.
- **About 2 out of 10** (23%) have a bachelor's degree or higher.



## Origin of African American History Month

American historian Carter G. Woodson established Black History Week (then called "Negro History Week") nearly a century ago to spotlight the accomplishments of African Americans. It was first celebrated during the second week of February in 1926 to coincide with the birthdays of Abraham Lincoln (February 12) and abolitionist/editor Frederick Douglass (February 14). In 1976, as part of the nation's bicentennial, the week was expanded to a month. Since then, U.S. presidents have proclaimed February as National African American History Month.

## Population of African Americans

About 13% or 44 million - The number of African Americans in the United States in 2019. These places have among the highest percentage of African American residents:

**46%**  
District of  
Columbia



**38%**  
Mississippi



## Occupations

Held by African Americans 16 years old and older:

- **About 3 out of 10** (32%) work in management, professional and related occupations.
- **About 2 out of 10** (24%) work in service occupations.
- **About 2 out of 10** (21%) work in sales and office occupations.
- **About 1 out of 10** (17%) work in production, transportation, and material moving occupations.



## Birthplace Populations of Famous African Americans

- **Martin Luther King, Jr.** - Atlanta, Georgia (Pop. - 506,811)  
Scholar and minister who led the civil rights movement.
- **Kamala Harris** - Oakland, California (Pop. - 433,031)  
49th vice president of the United States and the first woman and person of African American heritage to hold this position.
- **Barack Obama** - Honolulu, Hawaii (Pop. - 345,064)  
44th president of the United States and the first African American commander-in-chief.
- **Gertrude Rush** - Navasota, Texas (Pop. - 7,998)  
First African American woman to pass the bar exam and was an enumerator for the 1910 Census.
- **Ruby Bridges** - Tylertown, Mississippi (Pop. - 1,428)  
First African American child to integrate an all-white public elementary school in the South.
- **George Washington Carver** - Diamond, Missouri (Pop. - 910)  
African American scientist and educator, famous for many inventions including a number of uses for the peanut.

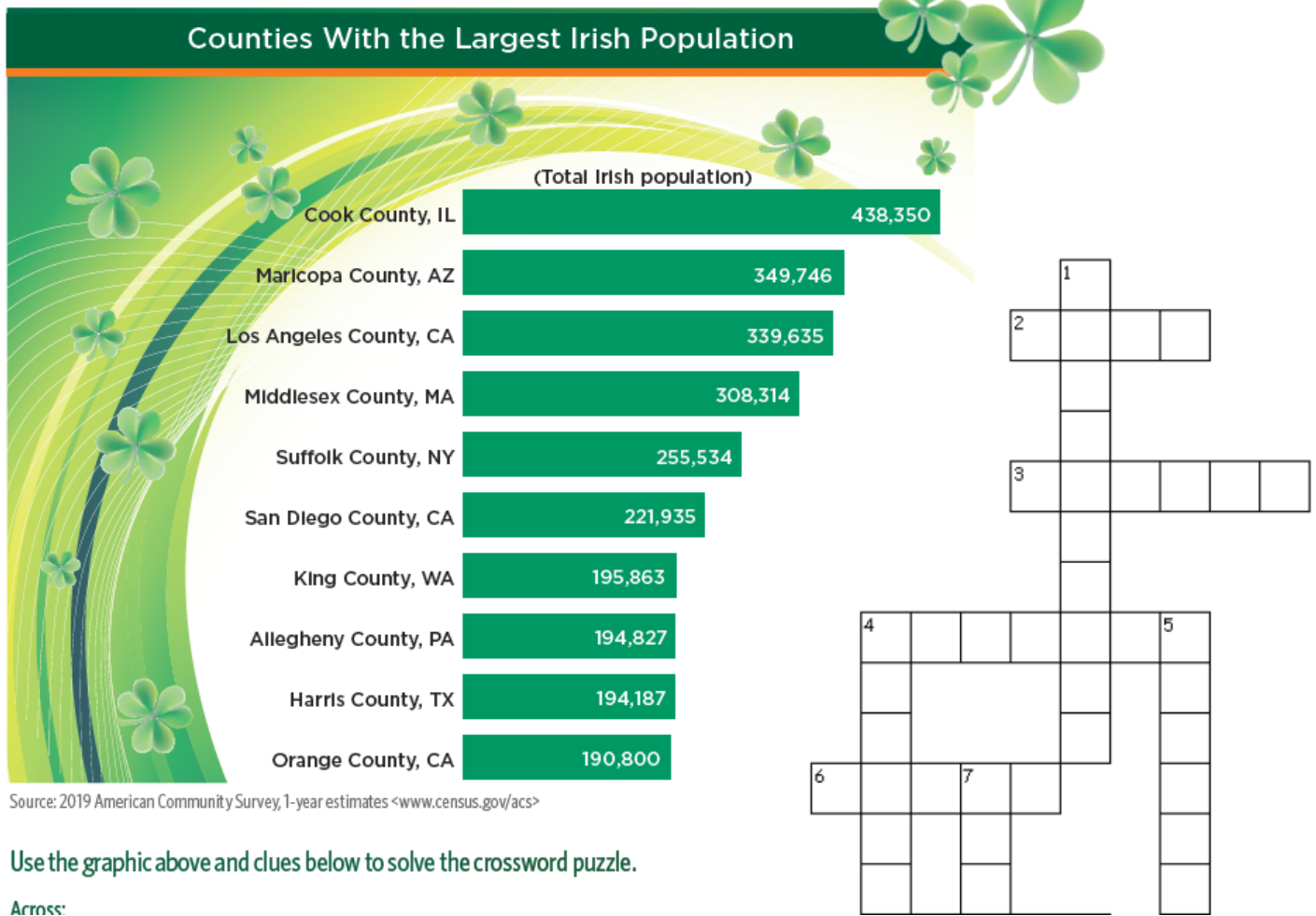
Notes: All of the data on this page, except the birthplace populations, is for the Black or African American alone population. Data is rounded for educational attainment and occupations and may not equal 100%.  
Sources: Annual Estimates of the Resident Population by Sex, Age, Race, and Hispanic Origin for the United States: April 1, 2010 to July 1, 2019, 2019 American Community Survey 1-Year Estimates Survey, 2019 Current Population, Annual Social and Economic Supplement, Vintage 2019 Population Estimates as of July 1, 2019 and <https://www.bls.gov>.



# Minute Challenge:

## Where Irish Eyes are Smiling in the United States

### Warm-Up Activity



Use the graphic above and clues below to solve the crossword puzzle.

Across:

# State Facts for Students



Oregon

Population		
	2010	2019
Population	3,831,074	4,217,737
Rank	27	27
Median Age	38.4	39.6
Total 8 year-olds	47,119	49,002
Boys	24,157	24,868
Girls	22,962	24,134
Total 9 year-olds	48,202	49,211
Boys	24,448	25,214
Girls	23,754	23,997
Total 10 year-olds	48,968	48,977
Boys	25,123	25,078
Girls	23,845	23,899
Total 11 year-olds	48,367	50,728
Boys	24,768	25,898
Girls	23,599	24,830
Total 12 year-olds	47,999	50,417
Boys	24,492	25,737
Girls	23,507	24,680
Total 13 year-olds	48,712	49,878
Boys	24,779	25,508

May I have another state, please?

Oregon

## History

- Date of Statehood: February 14, 1859
- Population 1860: 52,465
- Population 1900: 413,536
- Population 1950: 1,521,341
- Population 2000: 3,421,399
- Population 2010: 3,831,074

## I never knew that! \*

- Nickname : Beaver State
- Flower : Oregon Grape
- Tree : Douglas Fir
- Bird : Western Meadowlark
- Animal : American Beaver
- Fish : Chinook Salmon
- Nut : Hazelnut

## Who told you this stuff?

The U.S. Census Bureau takes a

## Computer and Internet Use:

Homes with a Computer

2019

95.0%

## Geography

Capital

2010

Salem

Largest City

Portland

Second Largest City

Eugene

Persons Per Square Mile

39.9

## Business

	2010	2018
Dentist Offices	1,925	1,990
Amusement Parks	2	4
Fast-Food Restaurants	2,797	3,095
Toy Stores	179	176
Video/Disc Rental Stores	232	25
Zoos & Botanical Gardens	16	14
Candy & Nut Stores	54	51
Pet & Pet Supply Stores	167	196
Ice Cream & Frozen Dessert Makers	10	10

# Data Fact – Earth Day April 22, 2021



- How many people in the United States rode a bike to work in 2019?
  - 4%
  - 6%
  - 1%
  - 3%



# Data Fact – Earth Day April 22, 2021



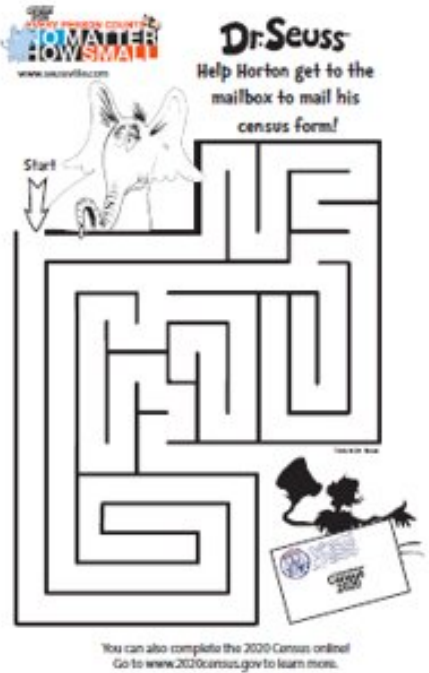
- How many people in the United States rode a bike to work in 2019?
  - 4%
  - 6%
  - 1% (805,722)
  - 3%

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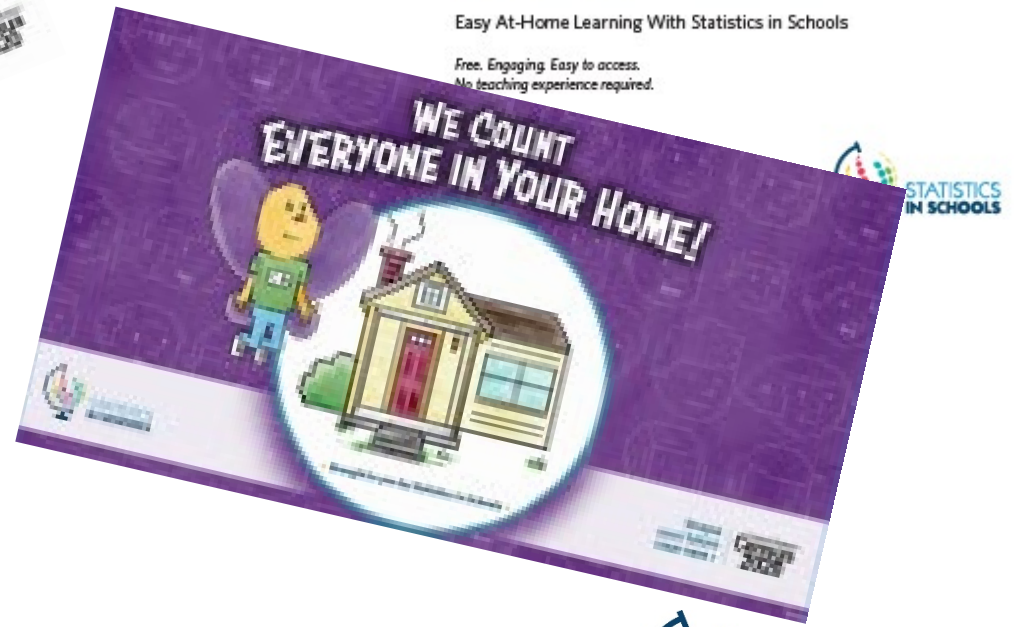
# Preschool

Learn at Home with SIS



## Parent/Caregiver Toolkit

Easy At-Home Learning With Statistics in Schools  
Free. Engaging. Easy to access.  
No teaching experience required.



# Elementary School Learn at Home with SIS



2020 CENSUS STUDENT ACTIVITY

Name \_\_\_\_\_

## Diversity: Languages at Home

1. Fill in the numbers for your class survey.

Our Class Survey

Family Fact	Number of Students
I have an older brother or sister.	
I have a younger brother or sister.	
I speak a language other than English at home.	
I was born in a different state.	
I have a pet at home.	



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Classrooms Now

### Fun Facts: Mother's Day - May 10

#### History - How It All Started

- The first Mother's Day was organized by Anna Jarvis on May 10, 1908, in Grafton, West Virginia, and Philadelphia, Pennsylvania.
- It was such a success across the country that Jarvis asked Congress to set aside a day to honor mothers.
- In 1914, Congress made the second Sunday in May Mother's Day!

MOM is the same backward and forward. Turned upside down, she is WOW!

#### Schooling Mom

More than 3 out of 10 (34.8%) The percentage of women age 15 to 50 giving birth in the past year who had a bachelor's degree or higher.

Almost 9 out of 10 (89.4%) The percentage of women giving birth in the last past year who had completed high school or higher.

Note: This is different from the specific group. Not all of the women are all except to have completed high school or higher.

#### Number of Children

Out of every 10 women age 15 to 50, approximately...

- 4 out of 10 (44%) have no children
- 2 out of 10 (22%) have one child
- 2 out of 10 (17%) have two children
- 2 out of 10 (17%) have three or more children

#### Celebrating Mom With...

Flowers—12,461 The number of florist stores nationwide in 2017.

A Special Card—21,461 The number of employees of greeting-card publishers in 2017.

Perfume—17,153 The number of cosmetics, beauty supplies, and perfume stores nationwide in 2017. Perfume is a popular gift given on Mother's Day.

A Piece of Jewelry—21,300 The number of jewelry stores in the United States in 2017—the place to purchase necklaces, earrings, and other timeless pieces for mom.

#### First-Time Mothers

Snapshots of mothers who were aged 15 and over in 2014: When did they first become a mom?

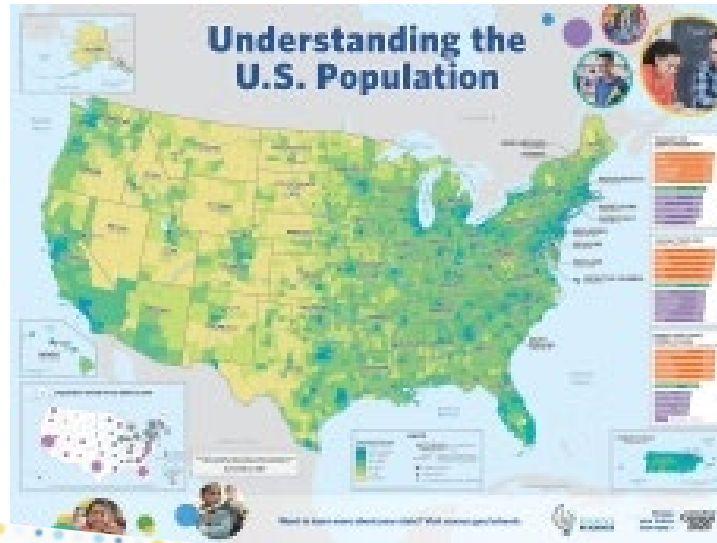
- 22% - Under age 20
- 37% - Age 20-24
- 24% - Age 25-29
- 12% - Age 30-34
- 4% - Age 35-39
- 7% - Age 40 and over

United States Census Bureau

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# Middle School Learn at Home with SIS



Middle School

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**2020 CENSUS TEACHER'S GUIDE**

### Diversity: Census Questions Over Time

**Topic(s):** Diversity, race, decennial census

**Grade Level:** 7-8

**Approx. Time Required:** 45 minutes

**Learning Objectives:** Students will be able to:

- Draw conclusions based on analysis of a primary source.
- Analyze and cite recurring themes using text evidence.
- Calculate the percentage of a given data set.
- Apply mathematical processes to represent and solve problems involving proportional relationships.
- Identify the importance of the decennial census and how it benefits their community.
- Understand how the census has reflected the diversity of the United States.

**Introduction**

The 2020 Census Statistics in Schools (SIS) program is designed to educate students about the decennial census and to teach them educational concepts and skills, such as data literacy, through use of census data in the classroom. Responding to the census helps your community get its fair share of funding. Census data guides how more than \$675 billion in federal funding is distributed to states and communities each year. These funds support vital community programs that help children, such as schools, hospitals, housing, and food assistance. By educating students about the 2020 Census, you can help encourage a complete count.

The 2020 Census SIS program can be used with educational standards across the United States. You can use the topics and learning objectives above to determine which subject and unit plan or theme this activity will best fit into.

**About the 2020 Census**

In addition to the information that is built into instructions for this activity, the following points provide an easy, grade-appropriate way to explain the census to your students.

- The decennial census is a count of every person living in the United States that occurs every 10 years.
- It is important that every person be counted so that the government can properly distribute \$675 billion to communities.
- The population of every state as counted in the census also determines how many representatives each state is given in the U.S. House of Representatives.
- You can do your part by making sure an adult in your home counts you—and every person living in your home—in the 2020 Census.

STATISTICS IN SCHOOLS

Classrooms Powered by Census Data

Shape your future START HERE >

United States Census 2020



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



# High School

## Learn at Home with SIS



While watching "The Amazing Apportionment Machine Animated Video," [www.census.gov/schools/resources/videos/apportionment-machine.html](http://www.census.gov/schools/resources/videos/apportionment-machine.html), answer the following questions:

1. What is apportionment?
2. Since the \_\_\_\_\_ Census, Congress has used the Method of Equal Proportions.
3. According to the Constitution, each state should have at least \_\_\_\_\_ representative(s) or seat(s)?
4. How many total seats are in the House of Representatives?
5. Why is the apportionment formula used?
6. How many people did each House member represent in 1790 and 2001?



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## What Will You Do After High School?



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# Online Demo

- Demonstration of SIS website and resources
- [www.census.gov/schools](http://www.census.gov/schools)



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# New Activities

- Asian American and Pacific Islander Heritage Month Fun Facts
- Earth Day Warm-up activity
- Mother's Day Warm-up activity
- Activities will be updated with the 2020 Census data once available
- Updated State Facts for Students



# SIS Ambassador Program

- Increase statistical literacy in students at a young age with SIS materials.
- Empower educators to use real-life data in the classroom, no matter what subject they teach.
- Share SIS materials with teachers, librarians and students so they become champions of the SIS program.
- Interested? Send an email: [CLMSO.SISambassador@census.gov](mailto:CLMSO.SISambassador@census.gov)



# Sign Up for SIS Newsletters!

Sign up for the newsletter that highlights timely SIS events and materials, including new activities for the 2020-2021 school year.

[www.census.gov/schools](http://www.census.gov/schools)

Click on “About”

Click on “Contact Us”



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



Classrooms Powered by Census Data



Bells are ringing and school doors are opening once again. Welcome back! Are you interested in finding new ways to make data fun and relatable in your classroom? Check out the U.S. Census Bureau's [Statistics in Schools \(SIS\) program](#). We have lots of exciting new materials for use in every classroom from pre-K through 12th grade. From our 2020 Census worksheets to our Constitution Day Web page, you're sure to find resources that will enhance your students' lessons. Don't forget to check out our Back to School Fun Facts handout and accompanying teaching guide.

## 2020 Activities and Resources



Start shaping the future of your students today! By using new SIS materials, you can educate students and the adults in their home on the importance of counting everyone in the 2020 Census, especially children. An accurate count of all children is key because census responses drive decisions about the distribution of federal funds for many education-related programs.



STATISTICS IN SCHOOLS

# Data Fact – Asian American and Pacific Islander Heritage Month

- What is the estimated number of Asian-owned businesses in the United States? (Note: This number only represents employer businesses)
  - 3 out of 10
  - 2 out of 10
  - 1 out of 10



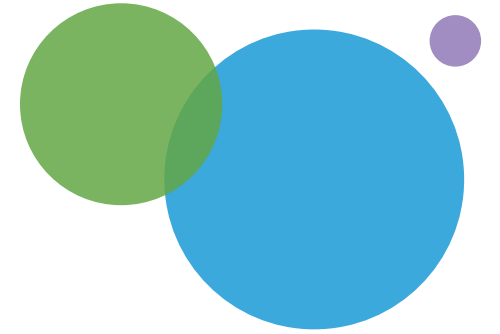
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# Thank You! and Questions?



Contact Statistics in Schools:

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or

301-763-4030

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