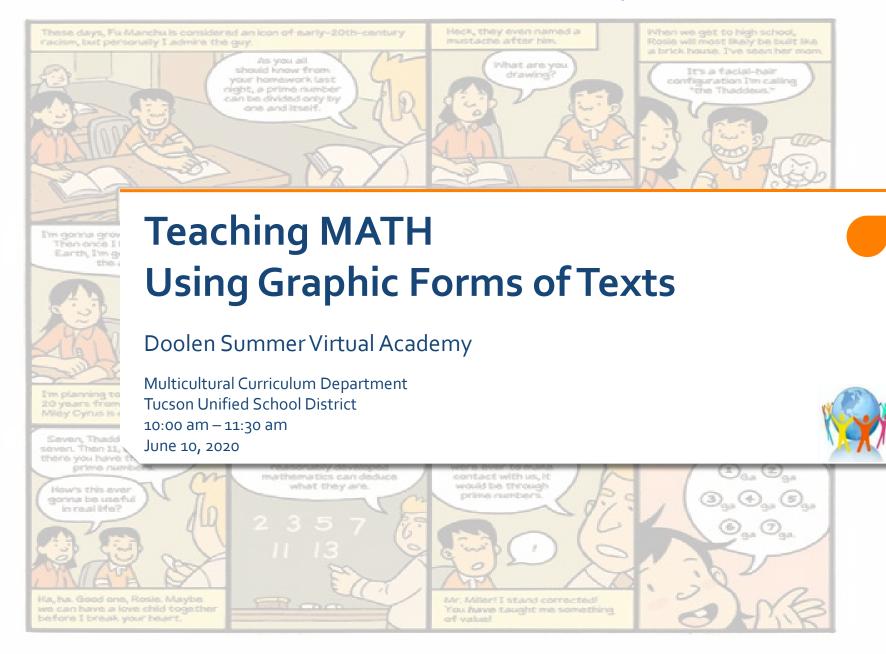
APPENDIX V - 38



During presentation ...

- + Mute yourself.
- + Comments on chats.
- + Tap "Raise Hand" icon.

Sudoku

Fill the grid with the numbers 1 to 4 in such that each number is only used once in each row and column.

3		2
	3	
4	2	
2		3

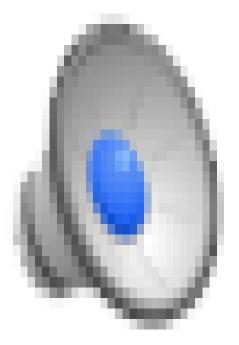


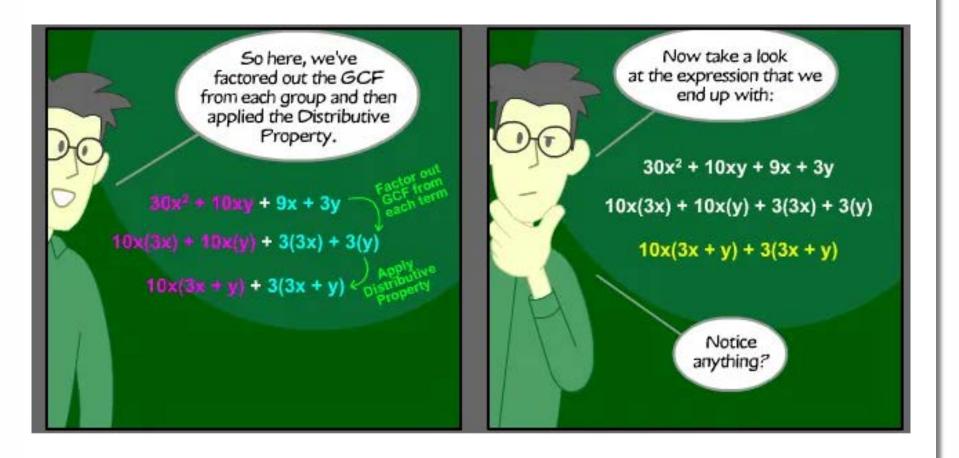
数独

3	4	1	2
1	2	3	4
4	3	2	1
			50 (0.00)











Visible Thinking

Connect	Excited	Question
How is the information connected to your experience or what you already knew?	What Excited you?	What questions, wonderings, or puzzles do you have now?



Why Teaching Math with graphic forms of texts?

- + Good problem solvers construct visual representation of the problem to help them comprehend it.
- + Visual narratives with math concepts promote mathematical thinking and introduce foundation math concepts.
- + Enhance curiosity, enjoyment, and engagement.
- + Culturally responsive classroom.

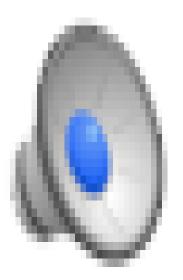
(Van Garderen & Montague, 2003; Roberts, 2019; Development and Research in Early Math Education, 2019)

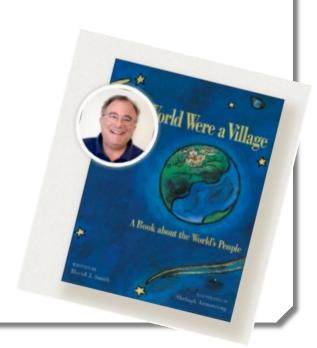


Resources Available in District

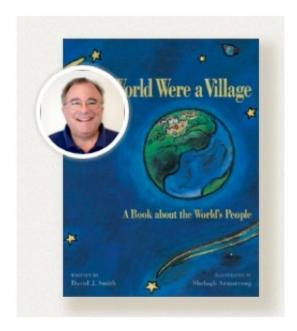
- Math picture books: If the World Were a Village of 100 People: A Story about the World's People
- 2. A Story Box about Mathematics
- 3. A Story Box about Mathematicians







What can we teach with this picture book?



Grades 6-8 Math Scope & Sequence

- + Ratios (G6, Q1)
- + Fractions (G6, Q1)
- + Statistics (G6, Q4; G7, Q3)
- + Comparing Populations (G₇, Q₄; G₈, Q₄)

Key Words:

percent, fraction, statistics, census, population, million, billion, graph, bulletin board, map, society, world, multicultural



Lesson Ideas

- A) The number of villagers are expressed as a percentage.
 - + 32 of the 100 villagers = 32 % of the villagers
 - + 32 % of the world's population
- B) The number of villagers are expressed as fractions.
 - + 25 of the villagers = 25/100 of the village = 1/4
- C) Graphing
 - + Create a circle or bar graph of a topic from the book
 - Language statistics (page 10)
- D) Bulletin Board
 - + Create a bulletin board with the headline "If the World Were a Village." Post graphs.



Key Questions

- + What does this data show? What does this tell us?
- + How is this different from ...?
- + If you were in the village, where would you be?
- + How many more/less ...? Approximately how many is this?
- + How will you represent this information?
- + How does it look like if we compare the date with that of your school community?
- + I notice ... I wonder... (Beginning to problem solve)



Extended Activities and Additional Resources

- + David Smith's Website https://www.djsmapping.com/village.shtml
- + David Smith telling the story behind the book
 https://www.teachingbooks.net/book_reading.cgi?id=4690&a=1
- + Statistics and comparison across countries and continents

 If It Were My Home http://www.ifitweremyhome.com/

 DataUSA https://datausa.io/
- + Canva Infographi Creator (Free)
 https://www.canva.com/create/infographics/
- Narrow down world population statistic as a whole instead of by continent.

https://www.100people.org/statistics_100stats.php?section=statistics

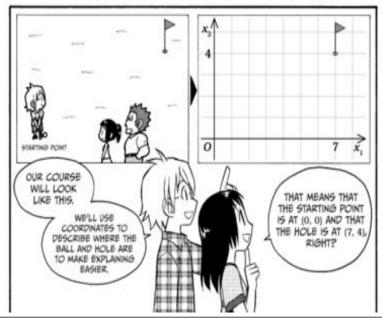


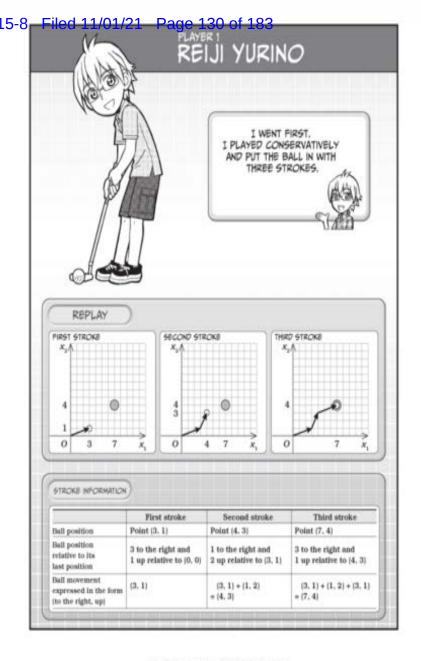
A Multicultural Story Box: Mathematics (Secondary)







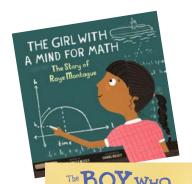


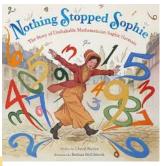


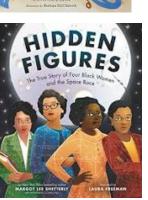
The Manga Guide to Linear Algebra © 2012 Shin Takahashi and TREND-PRO Co., Ltd.

A Global Story Box: Mathematicians

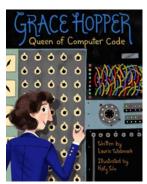
- + Celebrate multicultural mathematicians.
- + Learn about mathematic inquiry process.

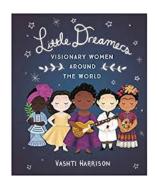




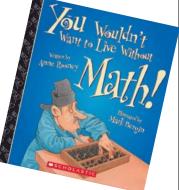














Group Work

- 1. As a group, select a picture book <u>or</u> a website.
- Listen to the YouTube read aloud story <u>or</u> explore the website.
- 3. As a whole, share our what you want to teach with the picture book <u>or</u> the website in your teaching.

YouTube Read Aloud Stories

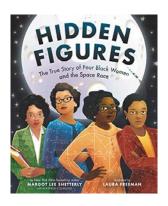
Hidden Figures https://www.youtube.com/watch?v=WartrMsbMal

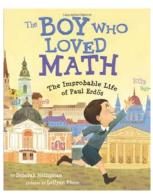
The Boy Who Loved Math https://www.youtube.com/watch?v=ikcswbrOMVQ

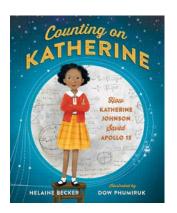
Counting on Katherine https://www.youtube.com/watch?v=iGUNklkJt2s

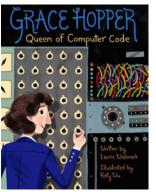
Grace Hopper https://www.youtube.com/watch?v=j2hv1Dm4toA

The World is not a Rectangle https://www.youtube.com/watch?v=arb1XwCnHXw&t=1135











Websites of "If the World were a Village of 100 people"

- David Smith's Website
 https://www.djsmapping.com/village.shtml
- + David Smith telling the story behind the book https://www.teachingbooks.net/book_reading.cgi?id=4690&a=1
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- + Canva Infographi Creator (Free)
 https://www.canva.com/create/infographics/
- Narrow down world population statistic as a whole instead of by continent.
 - https://www.100people.org/statistics_100stats.php?section=statistics

