	Lovings' TGC Unit Plan		
Prepared by: Ursula Lovings	School/Location: All City Leadership	p Academy, Brooklyn, NY	
Subject: Math Grade: 6 th Unit Title:	Unit Title: Using Statistics to Understand Global Issues Time Needed: 4 – 5 weeks		
Unit Summary: In groups of 3-4, students will research and sanitation, and education. They will collect data a graphs.	-		
	Stage 1 Desired Results		
ESTABLISHED GOALS:		Transfer	
 Students will develop researching skills develop statistical questions 		Students will be able to independently use their learning of statistical data application to discuss, present, and analyze global issues.	
 learn about global issues and collect data reflecting 	a chosen issue	Meaning	
 display numerical data in plots on a number line, his plots, line and bar graphs analyze data and reflect on its meaning 		er ESSENTIAL QUESTIONS • How do you collect data? • How can you interpret data?	
GLOBAL COMPETENCY:	by.	answered using different data	
 Investigating the World – Students will choose a glo a nation of interest after viewing an introduction vie challenges. They will ask questions, research inforn collect data that will help them better understand t <u>https://www.youtube.com/watch?v=</u> 	deo on globalissues and people.nation, andmath can be used to be understand the world.YY9nxG2ZQ7w	l world displays? • How do charts, tables, and	
Recognizing Perspective – Through their research, s	tudents will		
gain insight of how others see the world.		Acquisition	
 Communicating Ideas – Students will discuss their read and data with their group. They will share their final 		Students will be able tozens that• research and discuss global	

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have a stake in the world.

Sustainable Development Goals.

the actions they can take locally

that statistics is used to analyze

and better understand data.

the United Nations 17

to make an impact.

- and data with their group. They will share their final project with their classmates during a presentation week. Other classes and teachers will be invited to view student presentations.
 4) Taking Action Students will take an online quiz assessing their
- global footprint. Students will decide on how they can be effective in our local community through learning how other children have made a difference.
 - http://www.kidsgoglobal.net/
 - http://www.globalfootprints.org/issues/kidsquiz/ki dsquiz1.htm

RESOURCES:

• To discuss and explore the SDGs, students will explore the UN's website.

http://www.un.org/sustainabledevelopment/education/

To research their topics students will use some of the suggested

- issues.
 develop their own perspective and recognize other's perspectives.
- use critical thinking skills to evaluate evidence to decide what is accurate and relevant.
- develop their ability to think statistically.
- construct different representations of data.
- draw conclusions from data.

sites:		
http://www.nationmaster.com/		
http://www.infoplease.com/ipa/A0004372.html		
http://unstats.un.org/unsd/default.htm		
http://www.geohive.com/earth/		
Stag	e 2 - Evidence	
Assessment	Evaluation Criteria (Learning Target or Student Will Be Able To)	
Assessments FOR Learning: (ex: kwl chart, exit ticket, observation, draft, rehearsal)	Exit Tickets: Students will receive paper exit tickets to assess their understanding of creating statistical tools. Also, they will complete exit tickets, through Plickers, on their understanding of analyzing data.	
	Journal: Students will keep an online journal of their progress, including what they've learned, what questions they have, and what they've found surprising.	
	Observation: Students will be observed in discussions with their groups regarding their research, ideas, and data.	
Assessment OF Learning: (ex: performance task, project, final paper)		
	Project: Students, with their groups, will present their culminating project to the class. Students will demonstrate learning through an explanation/history of their chosen global issue, posing their statistical questions, and sharing their statistical tools and data analysis. Students will choose the format of their projects: project boards, PowerPoint, Prezi.	
Stage 3	– Learning Plan	

Summary of Key Learning Events and Instruction (Make this a useful outline or summary of your unit, your daily lesson plans will be separate)

Instruction for this unit will occur daily with five 45-minute class periods per week.

Week One: Week one will focus on an introduction SDGs and global challenges through videos, discussions, and independent student research. Students will begin their online journal.

Week Two: With their groups, students will begin researching and exploring their chosen topic. Students will learn how to recognize and create good statistical questions.

Week Three: Students will continue their research. Students will learn how to create and analyze line graphs, bar graphs, box plots, and histograms.

Week Four: Students will focus on their presentations: organizing their data and information, creating data displays, and practicing their presentations.

Week Five: With their groups, students will present their projects to the class and invited guests.

*adapted from Understanding by Design Model