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Brandie Disberger
Southeast of Saline High School

Title of Lesson: Impact of World Population Growth

Objectives: As a result of this lesson, students will

Draw the world population graph 

Discuss social changes that have impacted the graph

Track the change in the population over 10 minutes

Discuss impacts of world population to agriculture and vice versa. 

Background: Second lesson of 8th grade Agriculture Explorations unit, "What is agriculture?"


Logistical Information: 90 minutes

Computer w/internet access, www.census.gov/ipc/www/world.html

Calculators


Copies of Worksheet

Interest Approach:

How has the world population changed in the last 100 years? Draw an axis on the board and ask for 5 student volunteers to draw a line graph of the world population over the last 1000 years. 

Take a student vote whose like do you think is the closest?

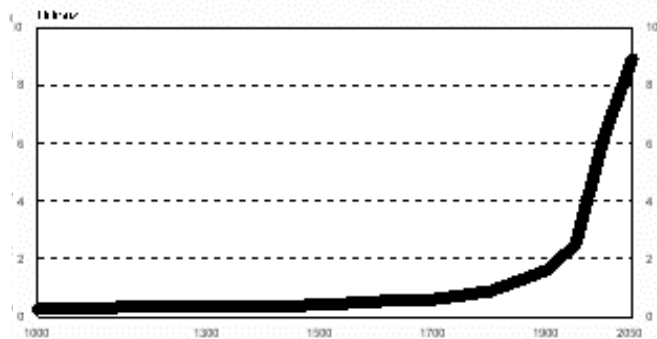
Reveal the correct answer after a drum roll by the class.

Summary of Content, Instructional sequence, Activities, and Strategies 

What factors have made the world population change so drastically over the last 100 years?

Objective 1: Draw the world population graph

World Population Growth 1000-2050



Objective 2:

E-Moment: Me, You, Us. 

When I say go, get a piece of paper from the scrap bin, fold it into 1/4th like this, and title the sections, me, you, us, summary. You have three minutes, go.


Next, under the “me” section answer the following question with statements, drawings etc. What factors do you believe have made the world population change so drastically over the last 25 years? (questions will be revealed on board, projector etc.) You have two minutes to brainstorm your answer to this question.

Time is up, move to the you section, with the person sitting closest to you, compare your thoughts and write new ideas in the us section, you have two minutes, go.

Next, you will discuss with another group for two minutes, go.


Finally, on your own, summarize the information you have gathered selecting the three top reasons you have found for the population change.

Who would like to share their thoughts?

Let's look at what the data says.... 

1. Trade revolution
2. Agriculture revolution
3. Medical advancements

Objective 3: Track the population change over 10 minutes.

As a class, we will track the changes in the world population for the next 10 minutes. Who will volunteer to run the computer? Who will be a timer? We will refresh the computer on the world pop clock every minute for then next 10 minutes. I will read out loud the number that should be listed under the following columns “actual time” and world population” 

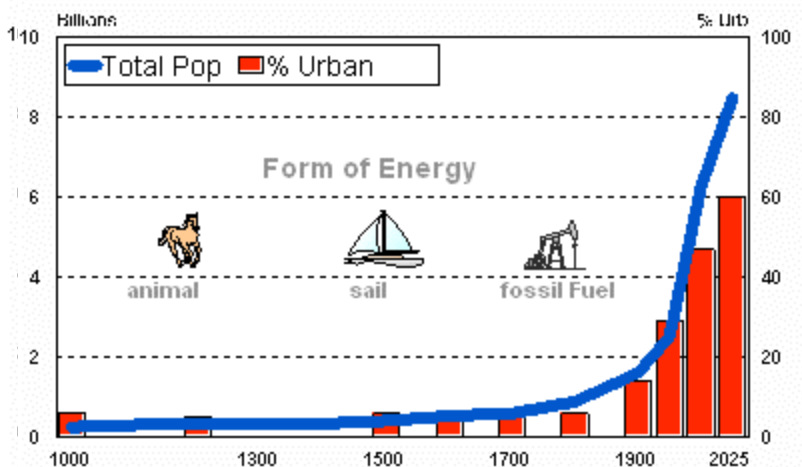
Track changes for 10 minutes.

What surprised you? Is it a constant change? You will learn more about this information as you complete the worksheet in the next 15 minutes, you may use a calculator.

Objective 4:

One might think that with this type of increase in the population, we should all be starving, anyone hungry out there? With this type of increase in population, how are we able to feed everyone?


World wide the form of energy has changed with the increase in population allowing us to produce more.



Do you believe the US raises more or less food products than they consume? Why or why not?


The United State produces significantly more food then needed, why do you think?

Elicit ideas from the students...lead them to the following on the board...

1. Technology advancements (discuss examples, increased yields, hybrid seeds, machinery efficiency) 
2. Fertile soil
3. Favorable growing conditions


Review

E-moment: Eye Witness News report. 

You will each summarize the information we went over today, and feel free to research more data to support your point. You will create a 30 second summary in the form of a news report over the data, you will be interviewed by a partner who you will work with during the next 10 minutes to create your report. What questions are there? You may begin. 

Who would like to share their reports?

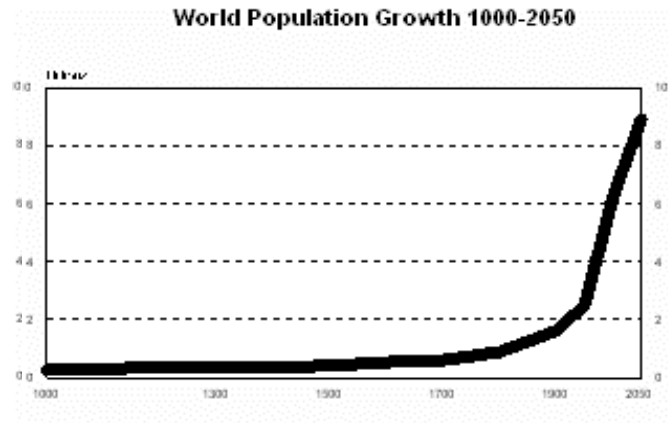
Share and discuss ideas from the news reports as a class.

ACTIONS: 

Evaluation w/Answer Key

Answers:

1.



- 2.
1. Trade Revolution
 2. Agriculture Revolution
 3. Industrial Revolution
 4. Medical Advancements

3. The change is consistent over each minute, but if they did not refresh at exactly one minute, population change may vary.

4. Energy Fuel Sources have changed
5. More

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