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World Population and Food Distribution

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World Population and Food Distribution

Created by: Matt Hoodjer School and District Names not available

Grade Level (Req.): 9th-10th	Content Area (R	eq.): World	Unit (Opt.):	
grade	Cultures, World	Geography,		
	Human Geograp	hy		
Connections to Other Disciplines (Opt.):			
 Students must use math sl 	kills to calculate p	ercentages.		
•				
•				
Time Frame (Req.): One 45	Goal (Req.): To simulate the differences in population density among			
minute class period	the continents, as well as the distribution of the world's food supply.			
	Objective (Req.): Students will be able to identify what parts of the			
	world are and ar	re not heavily pop	ulated. Students will be able to	
	identify the regi	ons of the world w	vith a scarce food supply. Students	
	will be able to p	ropose strategies	to correct the imbalance of the	
	world food distr	ibution.		
Materials Needed (Req.):		New Vocabulary	v (Opt.):	
Calculator		•		
• 2 bags of Hershey's kisses (or other type of •				
food)(this lesson was desig	gned for 24	•		
Students)	de dune (1 N	•		
Continent name tags wade	Jea up (I-N.	•		
America, 2-5. America, 3-E	urope, 4-Amca,			
14-Asia)				
Anticipatory Set/Introduction [Ing	uiry Auestion is re	l auired] (Reg.): As	k students to list what they had to	
eat for one meal or all of their mea	als the day before	Compare lists an	d ask the students if they believe	
they get enough food to live on. Could they survive on less?				
	build they survive			
Instructional Sequence/Procedure	(Req.):			
1. Instruct: There are 6.8 billion people in the world breaks down to the following: North America:				
337,000,000 = 6%; South America: 577,000,000 = 8%; Europe: 734,000,000 = 11%; Africa:				
973,000,000 = 14%; Asia: 4,054,000,000 = 60%; Australia: 34,000,000 = .5%. The students will				
represent the percentages of each continent making up the total percentage of the world				
population. Ask if anyone can explain how to figure this out? (% x # of students)				
2. Have the students figure h	low many of them	belong to each co	ontinent. 2 students would live in	
N. America (.06x24 = 1.44	= 1 student), 2 stu	idents would live i	in South America (.08x24 = 1.92 = 2	
students), 3 students would live in Europe (.11x24 = 2.64 = 3 students), 4 students would live in				
Africa (.14x24 = 3.36 = 4 st	udents), 14 stude	nts would live in A	Asia (.60x24 = 14.4 = 14 students).	
We won't use Australia because it is such a small % of the total population.				

3. Distribute 1 continent labeled paper wad to each student. Break the students into 4 groups

scattered around the class. (Tell each group they represent a different country – doesn't matter which – and that sometimes countries fight.) When everyone is in place the students will have a paper wad fight among the other groups. After the teacher has determined we have had enough "fighting", the teacher will stop the fighting. Each person will pick up one paper wad and go back to their seats. Each student will open their paper wad and find which continent they belong to.

- 4. Each continent will group together, clustered in different areas of the classroom. Everyone must stand up. Have students note how many people they have in their section of the world and how much room they have.
- 5. The teacher will pass out the Hershey's Kisses representing the world food supply. Once they pass out the food the ones who did not receive any must remain standing while the ones with the food will get to sit down. The teacher will take one bag of Hershey's Kisses and distribute as follows: The North Americans receive half the bag (everyone sits down); The Europeans receive half the bag (everyone sits down). The teacher will take the second bag of Hershey's Kisses and distribute it as follows: 1 African receives no Hershey's Kisses because 1 out of 3 Africans go to bed hungry, one African must stand and watch the others; 3 Asians receive no Hershey's Kisses because 1 out of 5 Asians go to bed hungry, three Asians must stand and watch the others; 1 South American does not receive any and the other one receives only a couple of Hershey's Kisses Kisses because 1 out of 8 South Americans go to bed hungry.
- After the food has been distributed, we will review the total population numbers of each continent that had been posted on the overhead and add the ratio that go to bed hungry. Africa: 973,000,000 = 1 out of 3 go to bed hungry, Asia: 4,054,000,000 = 1 out of 5 go to bed hungry, South America: 577,000,000 = 1 out of 8 go to bed hungry.
- 7. Using the information, students will figure the total number of population in each continent that go to bed hungry. (The one African standing represents 324,000,000 people who go to bed hungry.)(The three Asians standing represent 900,800,000 people who go to bed hungry.)(The one South American standing represents 72,125,000 people who go to bed hungry.)
- 8. Students will return to their seats, take out a piece of paper and answer the following questions: Where do most people live? (Over half in Asia) Where is there a surplus of food? (North America and Europe, where farmers are high-tech) Where is there a shortage of food? (Africa, Asia, and South America, where farmers are low-tech) Where are the worst food shortages? (Africa the only continent with two giant deserts) If Africa and Europe have the roughly around the same populations, then why is one hungry and the other not? (Africa's population is growing faster than its food production. Africa has two deserts and a rainforest that cannot produce food. Farming is more high tech in Europe with land capable of producing more food) What can be done to help the people going to bed hungry? (Europe and North America could share their food. Africans and Asians could increase their food production by using fertilizer to improve soil, irrigate to water the crops and use high tech machines to do the work) What would have to happen long term to help with the food imbalance? (In the long range, a country's population should be roughly equal to its food production)
- 9. Students will turn in their answers. After all have been collected discuss the questions and answers. Students may eat the candy. Encourage students to share with those that did not get any.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.

Formative Evaluation (Req.): Participation points awarded for student answers and informal assessment by checking for participation and understanding.	Assessment (Req.): Students' answers to the questions
 Iowa Core Curriculum Standards Used (Req.): Geography, grade 9-12: Understand how hu the development of society and the moveme Geography, grade 9-12: Understand how ph surface and major ecosystems. Geography, grade 9-12: Understand how hu environment affects humans. 	man factors and the distribution of resources affect ent of populations. ysical and human processes shape the Earth's man actions modify the environment and how the
Common Core Curriculum Standards Used (Opt.): Speaking and Listening, grade 6-12: Engage (one-on-one, in groups and teacher-led) with texts, and issues, building on others' ideas a 	effectively in a range of collaborative discussions h diverse partners on specific grade level topics, nd expressing their own clearly and persuasively.
NGS Standards Used (Req.): The characteristics and spatial distribution o How human actions modify the physical env How physical systems affect human systems The changes that occur in the meaning, use,	f ecosystems on Earth's surface ironment distribution, and importance of resources
 Five Themes of Geography Used (Req.): Place Human-Environmental Interaction Region 21st Century Universal Constructs (Opt.): Critical Thir 	School District Standards and Benchmarks (Opt.):

Other Disciplinary Standards (Opt.):

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Other Essential Information (Opt.):
Other Resources (Opt.):
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