Objective: Analyze Population Patterns in the U.S. and the World!

Today's work goals:

1) You will need a calculator and colors! Get in groups of 2-3. Using the blank maps of the U.S. and the website http://2010.census.gov/2010census/popmap/, create population maps of the U.S.

Tip: Divide up the work responsibilities by having each member compute the population densities for certain states. For example: "I'll take all states beginning with letters A-I!" Or, 'I'll do these states in the northeastern part of the U.S." Compare each other's data and work together to finish shading in the maps!

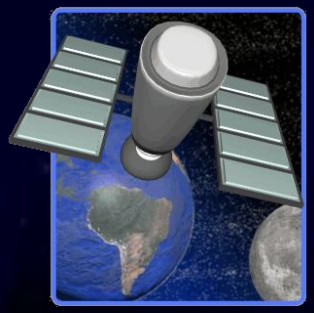
2) For each group, I will assign a specific region of the world to analyze population settlement patterns featured on the map of the "Earth at Night" (on the projection screen). Appoint a scribe to complete the four questions of this activity. Then, your group will present its findings to the class.

Directions:
Go to http://2010.census.gov/2010census/popmap/. Record the population of each state separately and then complete key and this map!

Directions:
Using your data collected from above to compute the population density of each state, create a color key and complete this map! What patterns can be seen in the distribution of population densities by state. What inferences can you make by observing the overall spatial distribution?

Use the formula **Population density = Population/ Land Area** to calculate population density.

Activity: Analyze Satellite Imagery of the Earth at Night



Directions--Your group will be assigned one of the six regions circled above . Complete the accompanying chart and answer the following questions:

1) Using an atlas, identify the 10 biggest/most populous cities in your region.
2) What do the concentrations of lights reveal to us about various areas of your region?
3) Why are some areas of your region dark/or less bright than others? Hypothesize!
4) Do this map accurately reveal population settlement patterns? Why or why not?

Analysis of Population Patterns on Map of the Earth at Night

	Location	Population Density	Patterns of Settlement	Why do these patterns occur?
1				
2				
3				
4				
5				
6				

Extension Assignment on Satellite Images:

- Complete the National Geographic lesson "**WHAT CAN WE LEARN FROM SATELLITE IMAGES?**" at the website http://www.nationalgeographic.com/xpeditions/lessons/03/g912/landuse.html