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Página de Colaboração Grupo de Pessoas Colorindo Página População Humana Colorindo Página População Mundial Colorindo Página Mundial População Clipe Nome de Arte \_\_\_\_\_ Date \_\_\_\_\_ Objectives: Create a graph of human population growth and use it to predict future growth and identify factors that affect population growth. Number of Persons (in billions) 1650 50 1750 70 1850 1.0 1925 2.0 1966 2.5 1966 3.3 1970 3.7 1976 4.0 1980 4.4 1991 5.5 2000 6.0 2004 6.4 2012 7.5 Place time on horizontal axis. Values should range from 1650 to 2050. Place the number of people in vertical access. Values should range from 0 to 13 billion. Make sure that your chart is a full page in size and you have the correct labels for the x-axis and Create a title for your chart. 1. It took 1649 years for the world's population to double, from 0.25 billion people to 0.50 billion people. How long did it take the population to double once more? 2. How long did it take the population to double a second time?  
3. Use a different color to extend your chart through the year 2015. In what year will the population reach 10 billion? 4. Based on your chart, how many years will it take for the 2000 population to double? 5. The chart illustrates exponential growth. Based on the properties of the chart, what does this term mean? Before 1950, the mortality rate was high, which prevented the number of humans from rising rapidly. In the 19th century, the agricultural revolution increased food production. In the 20th century, advances in medicine, sanitation and nutrition further decreased mortality rates. These factors have combined to produce the rapid growth of the human population in the 20th century. Transport capacity is the number of individuals that a stable environment can support. There's no agreement on how many people the Earth can stand. Although we can observe in ecosystems that as animal populations reach their carrying capacity, the population is at risk of hunger and disease. These factors will reduce the population to their carrying capacity. Some countries have a much higher growth than others. The growth rate is the number of people born minus the number of people who die. In countries with high growth rates, the number of babies being born is very very than the number of individuals dying. This is called a positive growth rate. In other countries, the number of babies being born is lower than those who are leaving the population, this is a negative growth rate. To calculate the growth rate, subtract the number of deaths by the number of births, this will give you a positive or negative number. Zero population growth means that as many people are being born as there is dying - to achieve zero population growth, each couple would need to have no more than two children, which will eventually replace parents in the population. Even if this number is reached, the population will continue to grow because parents will still live for decades, as their children have children and their children have children... and so on. Analysis 6. What factors contributed to the rapid population increase in the 20th century? 7. Why does a population not level during the same year achieve zero population growth? 8. An island reports that in the year 2000 there were 240 babies born. In the same year, 100 people died. What is the growth rate of this island? (Show your work and indicate whether it's positive or negative.) 9. If the earth's transport capacity were 12 billion people, when would that number be reached (according to your chart)? 10. What will happen when the human population exceeds the Earth's carrying capacity?  
Title: \_\_\_\_\_

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