

Trends Instructions

- 1.) Retrieve data from Open Baltimore for Children and Family Health and Well-Being for 2010-2014 and 2015*
 - a. Link for 2010-2014: <https://data.baltimorecity.gov/Neighborhoods/Children-and-Family-Health-Well-Being-2010-2014-/rtbq-mnni>
 - b. Link for 2015: <https://data.baltimorecity.gov/Health/Children-and-Family-Health-and-Well-Being-2015-/7v76-hknd>
 - c. *Use a Filter on the Community Statistical Areas (CSAs) to ensure you only have CSAs you have data for all years for
- 2.) Combine the 2015 data with the 2010-2014 into one Excel file for easy access.
- 3.) [OPTIONAL] Label the columns more clearly:
 - a. Teenbir10 = Teen Birth Rate 2010
 - b. Termbir10 = Percent of Births Delivered at Term 2010
 - c. Birthwt10 = Percent of Babies Born with a Satisfactory Birth Weight 2010
 - d. Prenatal10 = Percent of Births Where Mother Received Early Prenatal Care 2010
 - e. LifeExp11 = Life Expectancy 2011
 - f. Mort1_11 = Infant Mortality Rate (IMR) 2011
- 4.) Start a new sheet in the Excel file
 - a. Label it “Teen Birth Rate”
 - b. Copy your CSAs in the A column
 - c. Copy Teen Birth Rate 2010 in B column, TBR 2011 in C, TBR 2012 in D, TBR 2013 in E, TBR 2014 in F, TBR in 2015
 - d. Complete an AVG fcn of columns B- G
 - i. In a blank cell below the B column, type =AVERAGE(B2:B35)
 - ii. Complete i. for columns C-G
- 5.) Start another new sheet for “% of Births Delivered at Term”
 - a. Copy your CSAs in the A column
 - b. Copy your % of Births Delivered at Term 2010 in B column, etc. (see 4 c)
 - c. Complete an AVG fcn of columns B- G
 - i. In a blank cell below the B column, type =AVERAGE(B2:B35)
 - ii. Complete i. for columns C-G
- 6.) Start another new sheet for “% Satisfactory Birth Weight”
 - a. Copy your CSAs in the A column
 - b. Copy your % Satisfactory Birth Weight 2010 in B column, etc. (see 4 c)
 - c. Complete an AVG fcn of columns B- G
 - i. In a blank cell below the B column, type =AVERAGE(B2:B35)
 - ii. Complete i. for columns C-G
- 7.) Start another new sheet for “% Early Prenatal Care”
 - a. Copy your CSAs in the A column
 - b. Copy your % Early Prenatal Care 2010 in B column, etc. (see 4 c)
 - c. Complete an AVG fcn of columns B- G
 - i. In a blank cell below the B column, type =AVERAGE(B2:B35)
 - ii. Complete i. for columns C-G
- 8.) Start another new sheet for “Life Expectancy”
 - a. Copy your CSAs in the A column

- b. Copy your Life Expectancy 2011* in B column, etc. (see 4 c)
 - i. *no data was available for 2010
 - c. Complete an AVG fcn of columns B- F
 - i. In a blank cell below the B column, type =AVERAGE(B2:B35)
 - ii. Complete i. for columns C-F
- 9.) Start another new sheet for “Infant Mortality Rate”
 - a. Copy your CSAs in the A column
 - b. Copy your Infant Mortality Rate 2011* in B column, etc. (see 4 c)
 - i. *no data was available for 2010
 - c. Complete an AVG fcn of columns B- F
 - i. In a blank cell below the B column, type =AVERAGE(B2:B35)
 - ii. Complete i. for columns C-F
- 10.) Create a new sheet to analyze the trends of all variables
 - a. Column A = Year
 - i. 2010-2015
 - b. Copy and Paste your averages in the following columns*
 - i. Avg Teen Birth Rate = B Column
 - ii. Avg % Births Delivered at Term = C
 - iii. Avg % Satisfactory Birth Weight = D
 - iv. Avg % Births Where Mother Received Early Prenatal Care = E
 - v. Avg Life Expectancy = F
 - vi. Avg Infant Mortality Rate = G
 - 1. *Put your averages in their respective years
- 11.) Create a 2-D Line Chart
 - a. Right click the White Box
 - i. Select “Select Data”
 - 1. Under “Legend entries (Series)” hit the “+”
 - a. Name = Year
 - b. For Horizontal (Category) axis labels, highlight A2:A7
 - 2. Under “Legend entries (Series)” hit the “+”
 - a. Name = Average Teen Birth Rate
 - b. For Y values, highlight B2:B7
 - 3. Under “Legend entries (Series)” hit the “+”
 - a. Name = Avg. % Births Delivered at Term
 - b. For Y values, highlight C2:C7
 - 4. Under “Legend entries (Series)” hit the “+”
 - a. Name = Avg. % Satisfactory Birth Rate
 - b. For Y values, highlight D2:D7
 - 5. Under “Legend entries (Series)” hit the “+”
 - a. Name = Avg. % Births Where Mother Received Early Prenatal Care
 - b. For Y values, highlight E2:E7
 - 6. Under “Legend entries (Series)” hit the “+”
 - a. Name = Avg. Life Expectancy
 - b. For Y values, highlight F2:F7
 - 7. Under “Legend entries (Series)” hit the “+”

- a. Name = Avg. Infant Mortality Rate
 - b. For Y values, highlight G2:G7
 - ii. Hit "OK"
- b. Can Title the Graph
 - i. [OPTIONAL] Click Add Chart Element
 - 1. Add Legend--Bottom