

CGT 270 Data Visualization
Makeover Monday #3 (2020 Dataset)

Name: Nathan Rusk

Date: 11/4/2021

Lab section: Thursday

Show your work!!!

Acquire

Week: 9

Date: Mar 2

Year: 2020

Data: Costing kids sleep

Source Article/Visualization:

[Costing](#)

[Kids](#)

[Sleep](#)

Data source: [Costing Kids Sleep](#)

Represent



On average, none of the grades meets the CDC's recommendation of 9 to 12 hours of sleep for 6- to 12-year-olds and 8 to 10 hours of sleep for 13- to 18-year-olds.

	Hours Needed*	Hours Averaged*	Deficit
Kindergarten	9.5	8.5	1.0
First grade	9.1	8.4	0.7
Second grade	9.3	8.3	1.0
Third grade	8.6	8.1	0.5
Fourth grade	8.9	7.9	1.0
Fifth grade	8.9	7.8	1.1
Sixth grade	8.6	7.6	1.0
Seventh grade	8.5	7.3	1.2
Eighth grade	8.5	7.4	1.1
Ninth grade	8.3	7.1	1.2
10th grade	8.4	6.8	1.6
11th grade	8.4	6.9	1.5
12th grade	8.0	6.6	1.4

Critique

I like that the data is very precise being in a table format and in floating point data type. I like that they provide some information about the CDC recommendations on sleep. I think I would like to change it to a bar graph to more easily show which grade has the most sleep deprivation.

This visualization falls into the yellow data visualization category.

The characteristics are: HY Structure Visualization, Detail AND Overview, and it is of convergent thinking.

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Mine

I want to know which grade has the most sleep deprivation.

What is the highest amount in hours?

Filter

Grade	Measure Names	Measure Values
12th	Hours Needed	8.00000
11th	Hours Needed	8.40000
10th	Hours Needed	8.40000
9th	Hours Needed	8.30000
8th	Hours Needed	8.50000
7th	Hours Needed	8.50000
6th	Hours Needed	8.60000
5th	Hours Needed	8.90000
4th	Hours Needed	8.90000
3rd	Hours Needed	8.60000
2nd	Hours Needed	9.30000
1st	Hours Needed	9.10000
K	Hours Needed	9.50000
12th	Hours Averaged	6.60000
11th	Hours Averaged	6.90000
10th	Hours Averaged	6.80000
9th	Hours Averaged	7.10000
8th	Hours Averaged	7.30000
7th	Hours Averaged	7.40000
6th	Hours Averaged	7.60000
5th	Hours Averaged	7.80000
4th	Hours Averaged	7.90000
3rd	Hours Averaged	8.10000
2nd	Hours Averaged	8.30000
1st	Hours Averaged	8.40000
K	Hours Averaged	8.50000

Stakeholders

- The audience is students, teachers, and parents, as well as anyone interested
- More sleep deprivation in the higher grades
- Tableau was used

What to submit: This document in PDF format only (if you do not know how to do this, ask).

Choose the best layout for your makeover visualization: Portrait or Landscape, Remove the page of the layout that you DO NOT choose. No blank pages!

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NEW Sketch your Makeover



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Refine (Makeover – Landscape view)

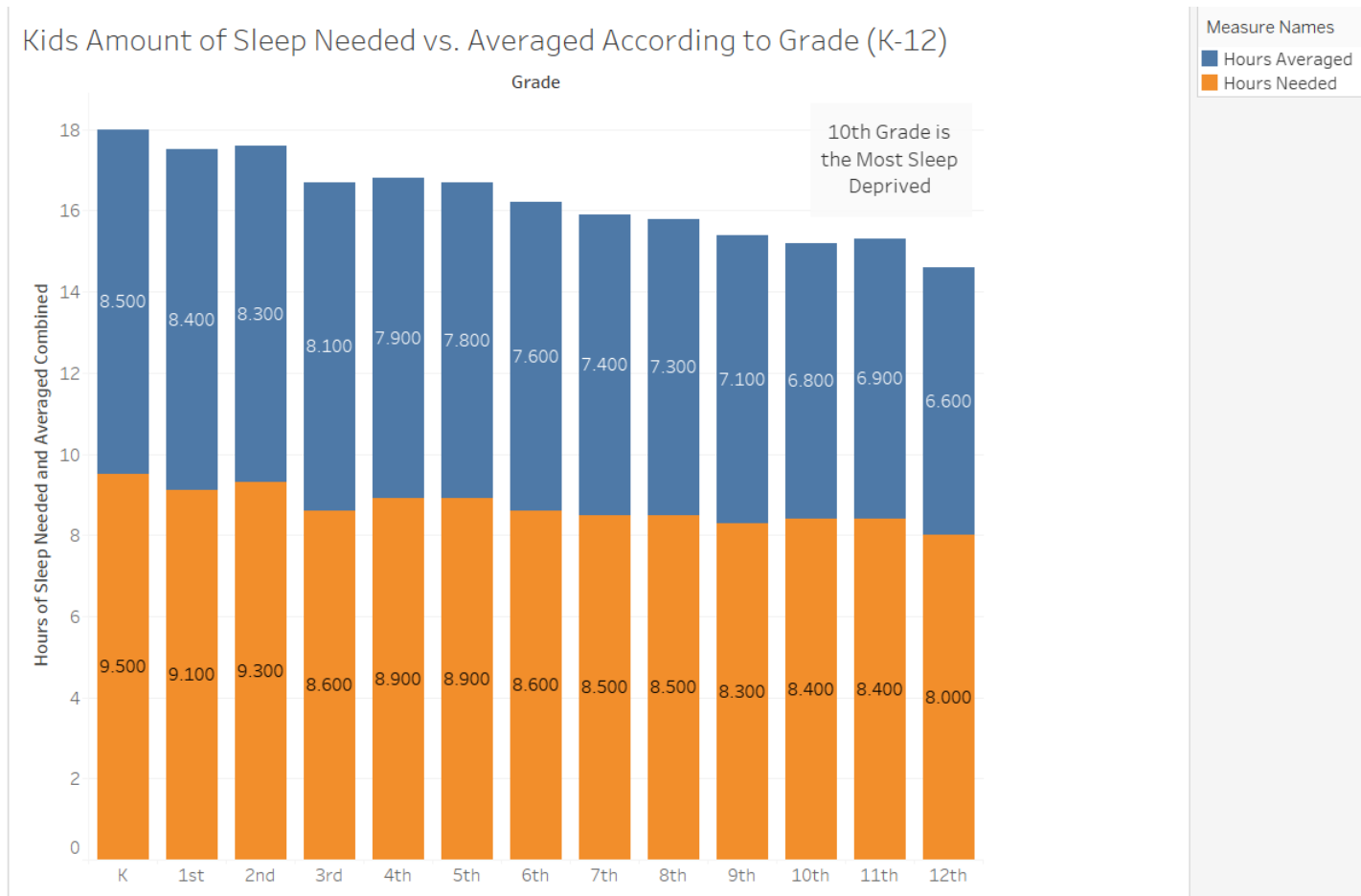


Figure Caption. This bar chart shows the amount of sleep needed compared to the amount of sleep kids actually average according to each grade (K-12). 10th Grade is the Most Sleep Deprived. I would like to do the vertical axis differently to where it shows the difference of the two rather than all of both, but I'm not sure how and time limitations (as per usual).

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Resources

Data Visualization Checklist:

http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist_May2016.pdf

How to give constructive criticism:

<https://personalexcellence.co/blog/constructive-criticism/>

Sample Makeovers

<https://www.makeovermonday.co.uk/gallery/>

Grading Rubric

Excellent (11-15 pts)	Good (6 -10 pts)	Fair (2-5 pts)	Needs Improvement (0 - 1 pt)
Meets ALL or most of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Meets MOST of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Consistently meets SOME of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Little to no evidence of the understanding of the data visualization process. Lackluster makeover or no makeover. Little effort.
Sketch included: hand drawn [5 pts]	Sketch included, but was generated by computer [2 pts]	No sketch included. [0 pts]	
Makeover Monday Assessment Completed [5 pts]	Makeover Monday Assessment not completed [0 pts]		