$\label{eq:continuous} The~2^{nd}~Math~Project~Instructions:$ Application of Data Analysis and Representation

dì er gè shù xué bào gào shù jù fén xì hé chéng xiàn dì yīng yòng 第二个数学报告:数据分析和呈现的应用

*应用 module	14-16 的内容 an application of the contents in module 14-16	
Due date:(not decided)		
Share your slides with me. My account: <u>TingHsuan.Liu@houstonisd.org</u>		
Share your survey link to Google Classroom.		
Classroom code:(not confirmed)		
	jué ding t mù 1. 决定题目 decide research topic	
	1. 决定题目 decide research topic	
	2. 决定研究的人 determine the research group	
	jù lì lài shuō nǐ kẽ yĩ xuān zé xià miàn qĩ zhōng yĩ gẻ yán jiũ dĩ qún tĩ 举例来说,你可以选择下面其中一个研究的群体 For example, you can choose of the following study group.	
	(1) 全部的 5 年级 all the 5th graders (2) 全部的 5 年级男生 all the 5th grade boys (3) 全部的 5 年级女生 all the 5th grade girls (4) 何老师班的全部的人 all the students in Mrs. Herrera's homeroom (5) 何老师班的女生 all the boys in Mrs. Herrera's homeroom (6) 何老师班的女生 all the girls in Mrs. Herrera's homeroom	

*注意: 研究群体越大, 研究结果越准确。 Mind: the bigger the study group, the more accurate the research result.

3. 设计问卷 Design survey

你可以把你想知道的问题放进去,以Google document 或Google form 设计。

You can put any questions you want to research in your survey. Use Google document or Google form to help you.

你可以参考这两个网页学习如何设计问卷。Please refer to these two webpages to learn more about survey design

- (1) https://www.mathsisfun.com/data/survey-conducting.html
- (2) https://www.surveysystem.com/sdesign.htm#goals
- 4. 发问卷和收集资料 Distribute your survey and collect data

*请将问卷连结放在 Google classroom

Please leave the survey link in the Google classroom

jus ding yòo zén me jis do hé chéng xiòn shù jù 5. 决定要怎么解读和呈现数据 Decide how to analyze and represent data.

rú guỏ nĩ xiông zhi dòo yòo yòng shí me tú xing lới chéng xiôn shù jù qing còn kảo zhè gè wòng zhòn 如果你想知道要用什么图形来呈现数据,请参考这个网站。

If you want to know when to choose which graph to represent data, please refer to this website.

https://nces.ed.gov/nceskids/help/user_guide/graph/whentouse.asp

tú xíng 图形:

- (1) 点图 dot plot
- (2) 茎叶图 stem-and-leaf plot
- (3) 散布图 scatter plot

- (4) 长条图 bar graph
- (5) 频率图 frequency table

zhù yì mẽi gẻ tú yì dìng yòo yòu fên xì dì zhù tí 注意:每个图一定要有分析的主题

Mind: Each graph/ table/ plot needs to have a title and the research items and numbers 学例来说,

zhū tl wū nión ji dì rén huì shuō dì yū yón 主题: 五年级的人会说的语言 Title: Languages 5th graders can speak

游 in Hanguage (research item)	rén shù 人数(numbers)
ying wén 英文	76
rhông wén 中文	76
xi bôn yá wén 西班牙文	23
hán wén 韩文	3
e wén 俄文	1

6. 练习口头报告:设计投影片,报告纸板或其他方式来呈现研览 jiù jié guồ stil giá guồ

Practice how to present your research by creating slides, tri-folds or other ways to show your research result

7. 正式报告 Formal presentation

Survey Ideas for Students to Graph and Analyze

kě yǐ zuò dì shù jù táo chá hé fén xì zhì tì 可以做的数据调查和分析主题

Retrieval from https://www.thoughtco.com/taking-a-survey-2312607

- 1. Survey the type (genre) of books people like to read.
- 2. Survey how many musical instruments a person can list.
- 3. Survey a favorite sport.
- 4. Survey a favorite color or number.
- 5. Survey favorite pets or types of animals.
- 6. Survey the weather: temperature, precipitation or type of day (hazy, windy, foggy, rainy etc).
- 7. Survey a favorite TV show or movie.
- 8. Survey favorite snack foods, soda flavors, ice cream flavors.
- 9. Survey favorite holiday locations or favorite all-time holiday.
- 10. Survey favorite subject in school.
- 11. Survey number of siblings in a family.
- 12. Survey amount of time spent watching TV in a week.
- 13. Survey amount of time spent playing video games.
- 14. Survey the number of countries people have been.
- 15. Survey what classmates want to be when they grow up.
- 16. Survey the types of ads that come on TV over a period of time.
- 17. Survey the different color of cars that drive by over a specific period of time.
- 18. Survey the types of ads found in a specific magazine