Group survey: application of data analysis and representation

小组调查：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: 4/21 (Monday)

Share your slides with me. My account: TingHsuan.Liu@houstonisd.org

Share your survey link to Google Classroom: Classroom code: nw732o4

<table>
<thead>
<tr>
<th>1. 决定题目</th>
<th>decide research topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. 决定研究的人</td>
<td>determine the research group</td>
</tr>
<tr>
<td>举例来说，你可以选择下面其中一个研究的群体</td>
<td>For example, you can choose of the following study group.</td>
</tr>
<tr>
<td>(1) 全部的 5 年级</td>
<td>all the 5th graders</td>
</tr>
<tr>
<td>(2) 全部的 5 年级男生</td>
<td>all the 5th grade boys</td>
</tr>
<tr>
<td>(3) 全部的 5 年级女生</td>
<td>all the 5th grade girls</td>
</tr>
<tr>
<td>(4) 何老师班的全部的人</td>
<td>all the students in Mrs. Herrera’s homeroom</td>
</tr>
<tr>
<td>(5) 何老师班的男生</td>
<td>all the boys in Mrs. Herrera’s homeroom</td>
</tr>
<tr>
<td>(6) 何老师班的女生</td>
<td>all the girls in Mrs. Herrera’s homeroom</td>
</tr>
</tbody>
</table>

*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.

<table>
<thead>
<tr>
<th>3. 设计问卷</th>
<th>Design survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
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](https://www.mathsisfun.com/data/survey-conducting.html)

(2) [https://www.surveysystem.com/sdesign.htm#goals](https://www.surveysystem.com/sdesign.htm#goals)

4. 发问卷和收集资料  Distribute your survey and collect data

5. 决定要怎么解读和呈现数据  Decide how to analyze and represent data.

   (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

注意：每个图一定要有主题，分析的标的  Mind: Each graph/ table/ plot needs to have a title and the research items and numbers

举例来说，

主题：五年级的人会说的语言  Title: Languages 5th graders can speak

<table>
<thead>
<tr>
<th>语言</th>
<th>Language (research item)</th>
<th>人数</th>
<th>numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>英文</td>
<td></td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>中文</td>
<td></td>
<td>76</td>
<td></td>
</tr>
</tbody>
</table>
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究结果
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
Retrieval from https://www.thoughtco.com/taking-a-survey-2312607

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

Survey the types of ads found in a specific magazine