

#### What is Research?

- Investigation or experimentation aimed at the discovery and interpretation of facts, revision of accepted theories or laws in the light of new facts, or practical application of such new or revised theories or laws. (Webster Dictionary)
- Find a question, give it a possible answer and then use a scientific way to find out if the answer is correct. After find the answer you have to explain why or why not. (Chen)









### Hypothesis • The answer you thought • we are going to talk about it more detail in next class • Example: • There is no difference in taste of banana between eat with rind or not.

- banana between eat with rind or not. - There is no difference in Children
- DMFT between use fluoride mouth rinse or not.

#### Design the experiment

- That's why you do the literature review!
- Or you can improve some procedures
- Or you can come up with your own new ideas
- Talk to someone before you start
- Focus on the question you asked





# Human sample involvement

- If the study sample is from human —teeth, tissue, survey, questionnaire
- You need to have consent form
- You need to write the proposal and send it to the institution research review board to approve the design
- HIPPA compliance

## Collect data

- Follow the design and do it!
- Collect all the data according to what happened, even you think it might change the result.
- Enter the data in spread sheet excel, spss, legal pad ...etc
- Be honest













