

Questioning - Microsoft Word

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Unit 3: Statistical Investigations
Day 3: Questioning (Observational) **DESIGN**

Mrs. Deliciousham wants to study if dressing for success actually helps increase test scores. She decided to do an observational study and ask her students in her classes.

- Write the null and alternative hypothesis for this study.
H₀: DRESSING FOR SUCCESS DOES NOT INCREASE TEST SCORES
H_a: DRESSING FOR SUCCESS INCREASES TEST SCORES
- Take the survey questions.
- Are these questions a good way to test the hypothesis? Why or why not?
NO - NOT ENOUGH CHOICES
• QUESTIONS NOT ADDRESSING HYPOTHESIS
• DON'T REMEMBER
- Discuss with your classmates what problems could occur when asking these questions.
- Take the new survey
- Are these questions better than the last set? Why?

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7. Discuss with your classmates how these questions are different from the first set.

8. When creating questions for an observational study it is important to make sure your questions are not biased and that your questions will give you the best possible answers. There are two types of ways to answer questions. **Closed Questions** are when a participant is given set responses to a question/statement. The more responses available the better your results will be. Give an example of a closed question.

I WANT TO BE IN SCHOOL RIGHT NOW
SO D NO A SA

9. **Open Questions** are questions where the participant is not given set responses so they are able to elaborate on a question. Give an example of an open question.

WHAT IS YOUR FAVORITE ANIMAL

10. A researcher must also be careful about how the questions are worded. The researcher needs to make sure that the questions are clear, easily answerable and do not incite bias. Look at the question/statement below:
"School uniforms should not be required" *agree disagree*
Is this a good way to ask this question or a bad way? Why? Rewrite the question so it would be more effective.

- SHOULD SCHOOL UNIFORMS BE REQUIRED
SO D NO Y A SA OPTIONAL

- WHAT IS YOUR OPINION ON SCHOOL UNIFORMS?

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Each of the following questions/statements are worded ineffectively or badly. For each one:

- a. Identify why it is a bad question/statement
- b. Rewrite the question/statement as an effective CLOSED question/statement
- c. Rewrite the question/statement as an effective OPEN question/statement

11. I can always talk to my parents about my problems TRUE/FALSE

b. DO YOU TALK TO YOUR PARENTS ABOUT PROBLEMS
SA A NO D SD

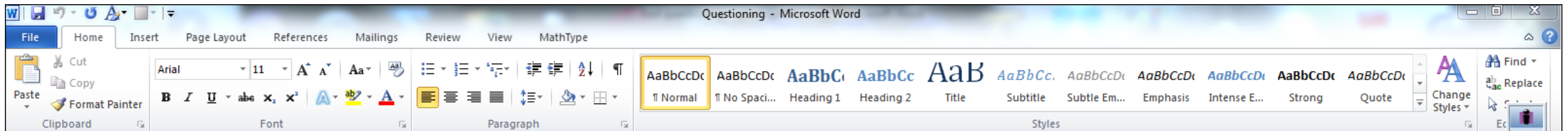
c. WHAT PROBLEMS DO YOU TALK TO
YOUR PARENTS ABOUT

12. Teachers and students like the new school schedule TRUE/FALSE

b. DO YOU LIKE THE SCHEDULE
SA A NO D SD

c. WHAT IS YOUR OPINION ON THE SCHEDULE

13. I like the school cafeteria TRUE/FALSE



14. I support school activities TRUE/FALSE

15. The school really needs more money to help provide after school care for needy children. Would you support a new tax increase to fund schools?

b. WOULD YOU SUPPORT A TAX INCREASE FOR SCHOOLS
SA A NO D SD

c. HOW MUCH TAX WOULD YOU WILLING TO FUND SCHOOLS

16. ~~Eating healthy promotes longer life.~~ Do you eat healthy everyday? Yes/No

d. HOW OFTEN DO YOU EAT HEALTHY
0/7 1/7 2/7 3/7 4/7 5/7 6/7 7/7
DAYS DAYS A
N R S O A
c. WHAT DO YOU CONSIDER HEALTHY?