1. Survey (or Polls)

Example Article: Polling Methods

Advantages:

- 1. Opinions
- 2. Large Groups of People
- 3. Lots of Methods to Collect Data

Disadvantages:

- 1. Depend on honesty
- 2. Doesn't test the effect of something
- 3. Can contain **BIAS**

Lack of Sleep puts you at a higher risk for Colds

Lack of sleep puts you at higher risk for colds, first experimental study finds By Hanae Armitage | Sep. 1, 2015, 11:00 AM

ters alike have stressed the importance of solid shuteye ears, especially when it comes to fighting off the common cold. Their stance sensible one-skimping on sleep akens the body's natural defense aving it more vulnerable to But the connection relied largely in self-reported, subjective surveys—until r the first time, a team of scientists reports that they have locked down the link experimentally, showing that sleep-

deprived individuals are more than four

is more likely to catch a cold than those who are well-rested.

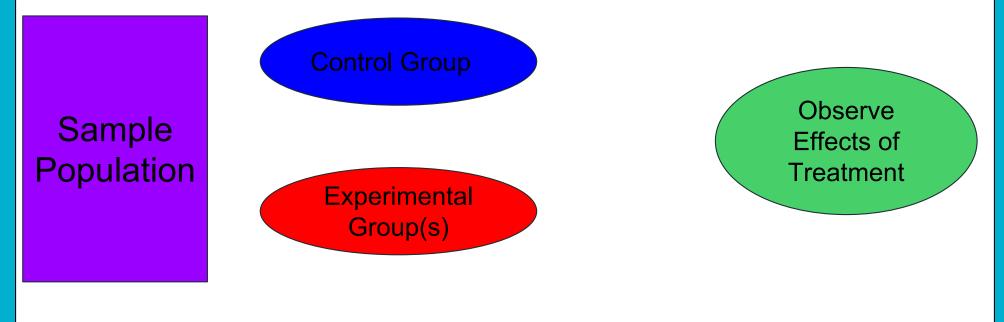
Key question 1: What did the researchers DO to the people in this study?

Key question 2: Did everyone in the study receive the virus?

2. Controlled Experiment

Example Article: Lack of Sleep Puts you at a Higher Risk of Colds

Used for determining the effect of a TREATMENT.



In One Study, a Heart Benefit For Chocolate



Key question 1: Why does the article say that this might be a weak study?

Key question 2: What other factors might have contributed to the results?

3. Observational Study

Example Article: In One Study, A Heart Benefit for Chocolate

The researchers DON'T influence the Sample Population at at all. Instead, they just observe and collect data in order to draw conclusions.

Important factors for Strong Studies:

1. Eliminating Bias:

- a. Randomly choosing participants
- b. Don't tell subjects that you are researching them!
- c. Word questions carefully (don't try to sway your subjects).

2. Reliability:

- a. Have enough participants.
- b. For experiments, have a control group.
- c. Randomly assign participants to groups.