**Examples of data collection projects:**

A study to determine which brand of cookie has a higher mean number of chips per cookie: Chips Ahoy or Famous Amos. But this type of project can be used in many types of foods or other articles.

Does the number of French Fries in a large container versus a small container justify the higher cost?

Do Oreo Double-Stuff cookies really have double the filling?

Does age affect people’s ability to answer questions?

A Study Comparing the Difference Between the Proportion of Men in Advertisements in Women's Magazines and the Proportion of Women in Advertisements in a Men's Magazine

Do boys or girls have better hearing (coordinated with school nurse)?

Does higher cost in foods mean better taste?

Does taking a test with questions from easiest to hardest, hardest to easiest, and in random order make a difference?

Does a yellow light mean that drivers stop or speed up through an intersection?

A study of whether there was a greater proportion of complaint letters to the editor in Time Magazine during the first half or the second half of the year 2002.

Clinton speeches vs. Bush speeches - is there a difference in the proportion of longer words in each.

Do men tend to make purchases more frequently than women when shopping?

Does gender make a difference in whether a person stops or goes through a yellow light?

Fill several large cylindrical pots with water and measure the heights over a period of days.

Examine the relationships to determine prediction equations.

Does a big zapper really attract bugs?

Examine the ratio of content pages to ad pages in different genre of magazines and see if there is a relationship.

Are Boys More Generous Than Girls?

Which Language Uses A Higher Proportion of Vowels?

The Proportion of Advertisements Containing Websites in Sports Illustrated and Newsweek

Do men or women have larger handwriting?

A Study Comparing the Soft Drink Preferences of Men and Women

A study of the price of a single scoop of vanilla ice cream (or other foods) from many stores

Is there a bias towards any digit on the serial number of money?

How far do rubber bands stretch before they break?

Are self-checkouts actually faster?

Weights of full backpacks for WHS students - does gender, grade, height of student, race, etc. make a difference?

A study of gasoline prices - does having several gas stations in close proximity keep the price lower?

The age that people marry - does race make a difference?

Door widths of local businesses that should be wheelchair accessible.

Is there a relationship between the size of a font and the amount of space a paragraph takes on a page?

Predicting the price of a used car based on miles

Sports teams who have higher salaries win more championships. Is this generally true?

Bake cupcakes with different color icing. Does the color make a difference when people select them? You can do this many ways with many types of foods - shapes of glasses, shape of product, etc.

Tap water versus bottled. Is there a difference in preference?

Conjecture: given a sample of pennies, there is a relationship between the year and the number of coins minted in that year.

Conjecture: the weight of coins are normally distributed. This type of analysis can be done with many sets of data. See science teachers for measuring devices.

Other studies in normality: size of apples in a market, wait time at a toll booth, peanuts in a package, lifespan of people buried in a cemetery, etc.

Do telephone numbers or addresses tend to favor or exclude certain numbers?

Comparing the Proportion of Men and the Proportion of Women of the Suburban Area Wearing Hats Indoors.

Google searches – note the number of hits and narrow the search, Attempt to generate equations predicting this data: Ex: Pacific Ocean, Hawaii, Oahu, Pearl Harbor, and Arizona.

**Questionnaire Survey type projects:**

Which Gender Tends to Wear Jeans More, Men or Women?

Spelling B. Do different genders, ethnic groups, perform better?

How far will people travel to save 5 cents a gallon on gas - is there a difference between the sexes?

The mean number of showers students take a day - is there a difference between races?

In what ways does exercise help a person? How strong are these impacts? (Example: Does someone who regularly exercises and then stops feel more depressed than someone who never exercises?

How much happier is a person after they start exercising? Does it matter what kind of exercise? How long do these impacts last?

A study to determine which gender follows the rules of the road more often by comparing the proportion of men and women who fully stop when making a turn on red as opposed to not making a full stop.

Is there a relationship between the number of colleges a student applied to and his or her GPA?

Do glasses make people look smart? Are people more inclined to respect a person with glasses?

Do certain accents (Russian, English, southern) carry with them certain connotations? For example, might a person think someone is smarter simply because they have an English accent, and think the person less bright if they have a southern accent?

Is there a relationship between the colors people wear and the color of their car?

Does taking vitamin C have an impact on colds?

Do people tend to enter into professions that are like what their parents did? How much is this tendency, if there is one, affected by the quality of their relationship with their parents? And which has more affect - the father's relationship, the mother's, or does it depend on the quality of the parent-child relationship, or perhaps on the match of personality?

Does working have an impact on how much one spends on popcorn and such at a movie?

Does the wording of a survey actually make a difference in the results? The government should allow… as opposed to the government should forbid …

Conjecture: there is a relationship between a student’s GPA and the cost of the college they are going to?

Are there any factors that can predict the success or failure of a marriage? (like age at marriage, difference in age between the couples, the marital status of parents, etc.)