## Note to Teacher:

This activity is meant to build your students' awareness of math after high school. Most high school students have a concept of mathematics that is based solely on the math they have learned in school. Try introducing them to the variety that exists in math after high school. Students do not often realize that there are two distinct branches to choose from when selecting a course of study in mathematics. They may find that if they already have mentally "ruled out" majoring in math, they were thinking of only one side of the spectrum and have not considered fields in the other category of mathematics.

Have your students do some research into fields of mathematics that are studied in college. Introduce your class to the distinction between Applied Math and Theoretical Math. If you choose to, you can follow up your discussion with the worksheets provided.

The goal is for students to say "Hey, I actually LIKE all the types of math on THIS side of the chart" (in one category or the other). Your classes may become aware of topics in mathematics beyond what they have already been exposed to.

## **Theoretical Versus Applied Mathematics**

Determine whether each situation qualifies as Applied Math or Theoretical (Pure) Math and label the top of each box accordingly.









Write your own examples for each category. You may need to do a little research. Try to come up with at least five situations for each.





