

## What is Statistics?

This course introduces you to the science of creating, understanding, and making conclusions from data.

- You will learn how to properly interpret data.
- You will learn how to make mathematical models to describe the way data behave.
- You will learn appropriate (and inappropriate) ways to collect data.
- You will learn about probability, the mathematical foundations of statistics.
- You will learn how to use this knowledge to make conjectures about large populations.

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## AP Statistics: Is it a good choice?

Positive indicators of success (B or higher in AP Stats)

- Can solve unorthodox problems with little/ no help from teacher.
- Good at asking meaningful questions, working with others in groups/ pairs.
- Can communicate complex ideas with clear and precise language.
  - Note: this does not mean just talkative or wordy.
  - Appreciates and applies precise terms and definitions.
- Tenacious in their effort to **understand the material**.
  - Tenacious desire for high grades does not correspond to high grades.
- Has a particular interest / hobby that involves using data.

Indicators of struggle (B- or below):

- **Inconsistent homework habits**
- **Weak study / test preparation skills**
- **Struggles with “out of the box” thinking.**
- **Quiet, “polite” attitudes, students who tend to work alone.**
- **Students who resist sharing ideas with teacher / class.**
- Students who struggle to understand their own mistakes/errors.
- Students who do poorly in History/ English class
- Misses class due to sports, extracurriculars.