

## Essential Questions

**Why?**

1. What is the meaning of a confidence interval?
2. How do we calculate margin of error?
3. What is the importance of significance testing?

## Enduring Understanding

Students will be able to utilize inference to interpret the meaning of data.

## MCPS Indicators and Standards

**What?**

1. Define and discuss the meaning of a confidence interval.
2. Discuss the meaning of margin of error.
3. Construct the confidence interval for a population mean.
4. Choose an appropriate sample size for a desired margin of error for a confidence interval.
5. Discuss the logic of significance testing.
6. Use statistical methods to test a hypothesis.
7. Discuss the uses and abuses of significance tests.

