

Why?**Essential Questions**

1. How do we use analyses of variance?
2. How do we tell the difference between population means?
3. What does it mean for the differences in means to be statistically significant?

Enduring Understanding

Students will be able to compare several populations using analysis of variance (ANOVA)

MCPS Indicators and Standards**What?**

1. Use one-way analysis of variance (ANOVA) to compare the means of several populations classified by one factor.
2. Use contrasts to answer specific questions about population means.
3. Use the multiple comparisons method to determine which pairs of means differ if the null hypothesis is rejected in an ANOVA test.
4. Use two-way analysis of variance (ANOVA) to compare the means of several populations classified by two factors.

