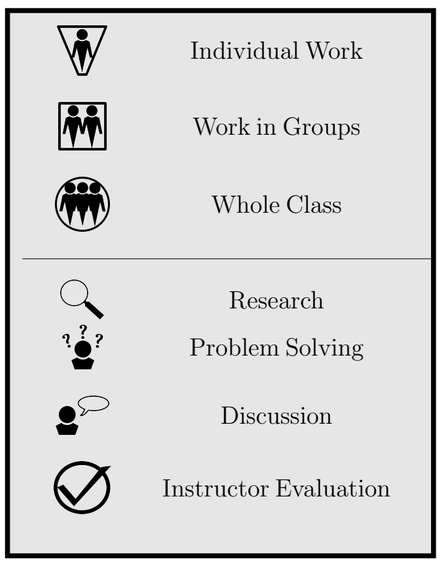
Don't leave it to chance alone! Choosing the right statistical test for biology data

By Edward Awad



In Class (Instructor)

In Class (Students)

Out of Class

Begin Here.

Instructor goes over a hands-on practice session to acquire data to run statistical tests on (approx. 2 hours).

Lab Example: Students can weigh different candies and apply a student's t test to the data

In-class Example: Students can apply a student's t test on differing heights between males and females in the class.

Instructor goes over how to use Excel to run statistical tests.

Instructor gives out three different statistical cases.

In their groups: Students read/complete the cases and decide which statistical test to apply to each case. (approx. 15 minutes per case)

The students will complete a fourth case which has data on levels of atmospheric CO_2 and its effects on Earth's global surface temperature. Students will decide on which statistical test to use to complete the case.

Next lab/class: The instructor will go over the three cases from the previous week.

Next lab/class: The instructor will grade the take home case.