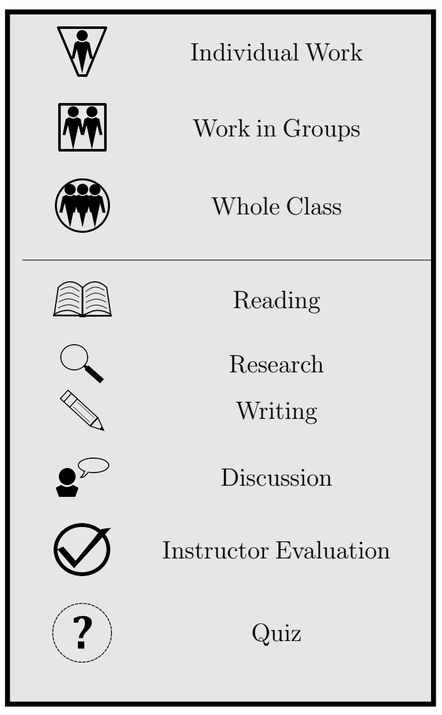
The Genetics of PTC Tasting and Tongue Rolling

By Edward Awad

Out of Class

In Class (Instructor)

In Class (Students)



Begin Here.

Assigned reading - students review handout / instructions in advance.

Students view online video relating to Mendelian/ Population Genetics and the Hardy Weinberg model.

Students answer an online quiz individually.

Begin by reviewing the key concepts and addressing any issues relating to the quiz.

Introduce the activity and divide students into groups of 3-4 and distribute PTC and control strips to all individuals.

Students answer the provided multiple choice clicker questions. Answers can be submitted using a computer, clicker, or paper.

Students determine their personal phenotypes for tongue rolling and, using the provided strips, for PTC tasting.

Tabulate the phenotype data, counting anyone who can taste both strips as a non-taster, and report the results to the class.

Groups discuss and agree upon answers to the questions in their handout.

The groups submit their answers to the instructor.

Evaluate the submissions.