



Science Competition Title: Designer Genes

Instructor's Name: Kate Plager

School of Instructor: Thornton Township High School

Email Address of Instructor: plager.katherine@district205.net

Date Competition Rules were created: 2010

Description and Rules for Competition:

1. Students will solve problems using their knowledge of genetics.
2. Non-programmable calculators may be used, but reference materials may not be used during the competition.
3. This event will be run at stations. Contestants will be given a variety of genetics problems to solve.
4. Possible areas to be tested may include: monohybrid crosses, dihybrid crosses and multiple alleles. Students should have knowledge of Mendelian genetics, molecular genetics, modern genetics, biotechnology as it relates to genetics, population genetics, and probability.
5. Skills needed include the ability to make observations, inferences, predictions, analyze data, and perform calculations to solve genetics problems.

How Scoring will be performed:

The team with the highest number of correct solutions will determine the winner.

How Tie-Breaker will be performed (if needed):

Selected questions may be used as tiebreakers.

Number of students allowed in each individual team:

Two students.

Number of teams allowed to compete from each individual school:

One team is allowed per school.