

Task: Campaign Consultants

Your team has been hired to write an advertising campaign in support of Mendel's laws. The client (Genes-R-Us) wants two 30-second ads for each law, to be played on the radio. Create these ads and be ready to present the campaign to the class.

Individual Accountability:

Do you think there are any fundamental differences between Mendel's two laws? How do any differences influence the application of Mendel's laws to genetic problems?



Task: Mendel's Words Game Show

Congratulations! You have been selected to participate on the Mendel's Words Game Show. All of the questions on this show are about the vocabulary of Mendel's genetics. Design a skit of this show and be ready to enact your game show to the class. You choose the words and categories.

Individual Accountability:

In your opinion, is all of the terminology scientists use to describe genetics really necessary? In five sentences or less, explain your answer.



Task: Team TEST

Your team has been hired to create test questions about Mendelian genetics for the MCAT and GRE. Specifically, you are to focus on probability in solving genetics problems. Create five mind-bending questions that could be used in these tests. Be prepared to present your questions to the class (and have answers!).

Individual Accountability:

Do you feel that probability is necessary for understanding Mendelian genetics? Explain your answer in five sentences or less.



Task: The Mad Scientists

You are members of a scientific team researching the influence of environment on human phenotype. Design the perfect experiment to finally determine how important environmental influences are on human form and function, and prepare the oral presentation you will give to your funding agency. Be ready to present and defend your experimental design to the class.

Individual Accountability:

Do you think that environment is or has been very important in determining *your* phenotype? Why or why not?



Task: The Great Debate

Create a skit that presents the dual meanings of the words phenotype and genotype (the reductionist view and the organismal view). Be ready to present your skit to the class.

Individual Accountability:

Do you think that one view of phenotype and genotype is more appropriate than the other? Explain your answer in five sentences or less.



Task: Ethical Dilemma

Your team has been asked to create ethical rules for the use of results from genetic screening. Civil liberties groups are picketing your offices since they feel that genetic information belongs to the individual only. Insurance lobbyists and biotech companies are picketing because they want access to individual genotypes for insurance rates and for possible use in developing new treatments or tests. Create a statement that presents guidelines for use of results from genetic screening, and that addresses both perspectives. Be prepared to present your statement to the class.

Individual Accountability:

In your opinion, are there any undeniable rights of individuals over their genome? When can an insurance agency or biotech firm have access to your genetic information? Explain your answer in five sentences or less.

