

Instructional Lesson Plan

Content Area(s)/Course/Grade:
Genetics/ Science/ 8th grade

Unit: Heredity

Lesson Topic:
Human Inheritance

Approx. Date/s: May 25, 2022

Diversity Integration Topic:

NJSL Standard/s:
• RST.6-8.7
MS-PS4-1
6.EE.C.9

Textbook, Materials, Resources:

Chromebooks

Google Doc

<https://www.canva.com/graphs/pie-charts/>

Lesson Objective:

- Students should be able to identify the genetic diversity within the classroom.
- Students should be able to explain how genetic diversity relates to biodiversity.
- Students should be able to gather the information from their survey to find the population of students who carry specific traits.
- Students should be able to graph this information in a pie chart.

Instructional Delivery

Culturally Responsive Teaching strategy:

Rosalind Franklin was a chemist and x-ray crystallographer - she used x-rays to study small compounds and molecules, including coal, graphite ("lead" in pencils), and DNA, RNA, and viruses. Even though it was her research that led to the discovery of the structure of DNA, she was not awarded the Nobel Prize along with three of her male colleagues. She died at age 37, four years before her colleagues received the award, and the Nobel Committee does not include deceased people in their Nobel Prizes.

Procedures:

Students will obtain a list of traits they need to look for within their class. They are to mingle and record the data on the phenotypes of the students.

They must determine if the traits they are recording are acquired or genetic.

They will use a tool to create polls and/or pie chart on their findings.

Assessment/Evaluation

Formative/Summative:

Student will complete the worksheet and take the chapter 5 test on human inheritance.

Closure:

Students can share their findings with the class for further discussion.

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