

Topic/ Strand: Reproduction, Heredity, and Development
Concept: Meiosis

Standard 7

Time: November

Approx. time of activity: 3-5 days

My Role:

- contribute to the planning of the activity, including research, gathering materials, writing questions for “anticipation guide,” assist with gathering data and analyzing data

Expectations/ Goals for Grade 10: (Key Components)

- **Recognize that during the formation of gametes, or sex cells (meiosis), the number of chromosomes is reduced by one half so that when fertilization occurs the diploid number is restored.**
- Explain how crossing over and Mendel’s Laws of Segregation and Independent Assortment contribute to genetic variation in sexually reproducing organisms.
- Explain how the type of cell (gamete or somatic) in which a mutation occurs determines heritability of the mutation. ----**Introduction to transfer task**
- Predict the possible consequences of a somatic cell mutation. ---- **TRANSFFER TASK**

Day1: The Case:

Day1: Activity following case study: (pre-test)

Preformatted questions (T/F)

Day1: Lecture on concepts:

Day2: Modeling:

Visual of meiosis: cartoon or pipecleaners/socks

Transfer Task:

Inheritable vs. somatic trait

Day3: Activity following case study: (post-test)

Preformatted questions (T/F) and respond why?

Discussion

Day3: Feedback

Like

Dislike

What they would like to change?