



Thomas Haney Secondary School

Science 9

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LG 3: Sexual Reproduction and Meiosis

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Knowledge:

- What is the purpose of Meiosis?
- How many chromosome do humans have? Think about how many pairs?
- What are the resulting products of Meiosis?
- How does Meiosis compare to Mitosis? Similarities? Differences?
- What are the processes of Sexual Reproduction? Can you provide examples of organisms that use each?
- Name/List and describe the Steps of Meiosis

Questioning and Prediction:

- Does the process of genetic variability created through the process of meiosis interest you? Can you think of a situation in your personal life (can be you, family, friends, etc) where this concept has had an impact?
- When you look at the individuals around you and noticed the genetic variability that exists, what specifically do you notice?
- What could occur if we (humans) were all the same and there was extremely low genetic variation?

Planning and Conducting:

- What quantitative data did you collect during the flower dissection lab?
- What qualitative data did you collect during the flower dissection lab?
- Explain any ethical, cultural or environmental issues that could arise from sexual reproduction and meiosis?

Processing and Analyzing Data and Information:

- Did you notice any cause and effect relationships in your study of Sexual Reproduction and Meiosis (Genetic variability)

Evaluating:

- What could have been done differently during the flower dissection to improve the activity?

Applying and Innovating:

- Can you think of/explain a genetic disorder that exists and theorize which part of the cell cycle a mistake is probably made in?
- Consider the role of science and understanding of genetics and how this information has been used in innovation.