

Notes - Amoeba Sisters - Mutation Video

Instruction

While watching this video many valuable and interesting pieces of information will be shown/heard. You should be actively participating by both watching and thinking about what is being presented. To help you I have some prompting questions that can be answered from the information in the video.

- What is a mutation?

- What are some of the **types** of mutations that can occur?

1.)

2.)

- When do mutations occur?

- Possible effects of mutations:

1.)

2.)

3.)

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- What is a mutation?

Answer - a change in nucleic acids for either DNA or RNA.

- What are some of the **types** of mutations that can occur?

- 1.) **Gene mutation (substitution, insertion, deletion) - may result in a different functioning protein.**
- 2.) **Chromosome mutation (duplication, deletion, inversion, translocation) -**

- When do mutations occur?

Answer - often during DNA replication or meiosis.

- Possible effects of mutations:

- 1.) **Neutral - no change to the amino acid or function of the protein results**
- 2.) **Advantageous - the change results in positive result when the protein function different.**
- 3.) **Deleterious - a negative side effect occurs as the protein functions differently in a way that is not advantageous (harms) the organism.**