

Microbes: Application, safety and ethics

1. Remembering:

- Recall the contributions of Anton van Leeuwenhoek to the field of microbiology.
- Identify different microbiological techniques used in research and industry.

2. Understanding:

- Explain the scope of microbiology and its importance in various fields.
- Differentiate between electron microscopes (TEM and SEM) and light microscopes (bright field, dark field, phase contrast, and fluorescent microscope).

3. Applying:

- Apply the principles of biosafety and ethics in handling microbes to protect ourselves and the environment.
- Utilize microbiological techniques for various applications such as food safety, healthcare, and environmental monitoring.

4. Analyzing:

- Evaluate the effectiveness of different microscope techniques in observing and studying microbes.
- Analyze the risks associated with handling microbes and propose strategies for mitigating these risks.

5. Evaluating:

- Assess the importance of biosafety concepts in preventing the spread of microbial infections.
- Evaluate the ethical considerations involved in the use of microbes in research and industry.

6. Creating:

- Develop guidelines for implementing biosafety measures in a microbiology laboratory.
- Design a research project using microbiological techniques to address a specific problem in the field of microbiology.

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