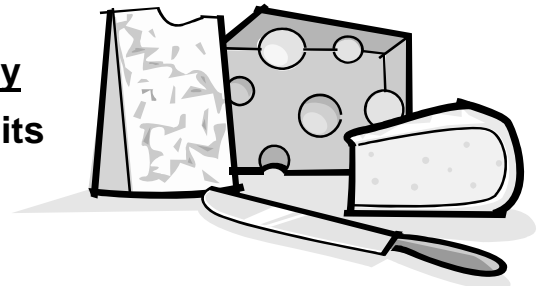


BIOLOGY 18978

Demonstrate knowledge of biotechnology

Biotechnology Level 1, 2 Credits



- Describe features of microbes.
 - Structure of
 - bacteria – genetic material, cytoplasm, membrane, cell wall, slime capsule, flagellum
 - fungi – hyphae, sporangium, spores
 - viruses – genetic material, protein coat
 - Growth and reproduction of
 - bacteria – binary fission
 - fungi – through spore production
 - Reproduction of viruses – replication

- Describe uses of microbes in biotechnology – the role of the microbe and the key steps in the process. Processes to be chosen from:
 - Bacteria
 - Yoghurt making
 - Cheese making
 - Antibiotic production
 - Fungi
 - Fermentation – baking and brewing
 - Role in cheese making

- Describe the use of an enzyme in biotechnology.
 - Properties of enzymes
 - The function of an enzyme in biotechnology