



SCOPE & SEQUENCE

GR. 7 - SCIENCE



Student Task

GRADE 7: Science**TOPIC 5: Micro-Organisms and Food Supplies****TASK: Poster Based on Internet Research****PRODUCTIVITY TOOL: Internet Research****TIMELINE: 2 Classes****LEVEL OF DIFFICULTY: ☺ Easy**

Students will use the World Wide Web to look up information on the various classes of micro-organisms: bacteria, virus, protozoa, fungus and algae. Students will work in groups to find information and pictures on these micro-organisms and make a poster to present their findings to the other students in the class.

WEBSITE:**Microbe Zoo**

<http://www.commtechlab.msu.edu/sites/dic-me/zoo>

Visit the Microbe Zoo and learn about micro-organisms in any of their wonderful exhibits:

- DirtLand
- Animal Pavilion
- Snack Bar
- Space Adventure
- Water World



“Microbe Zoo Map” courtesy of
Digital Learning Centre for Microbial Biology



ICT Outcomes

The learner will:

- C1** 3.2 refine searches to limit sources to a manageable number
- 3.5 analyze and synthesize information to create a product
- 3.6 communicate in a persuasive and engaging manner, through appropriate forms, such as speeches, letters, reports and multimedia presentations, applying information technologies for content, audience and purpose
- C3** 3.2 evaluate the relevance of electronically accessed information to a particular topic
- C7** 3.2 make connections among related, organized data, and assemble various pieces into a unified message
- F1** 3.1 demonstrate an understanding that information can be transmitted through a variety of media
- 3.3 apply terminology appropriate to the technology being used at this division level
- 3.6 explain how the need for global communication affects technology around the world
- 3.8 demonstrate an understanding that technology is a process, technique or tool used to alter human activity
- F2** 3.6 explain ways in which technology can assist in the monitoring of local and global environmental conditions
- F3** 3.1 use time and resources on the network wisely
- 3.3 understand the need for copyright legislation
- 3.4 cite sources when using copyright and/or public domain material
- F5** 3.1 identify risks to health and safety that result from improper use of technology





Curriculum Outcomes

GRADE 7: Science

TOPIC 5: Micro-Organisms and Food Supplies

TASK: Poster Based on Internet Research

Specific Learner Expectations

Attitudes

Students will be encouraged to develop:

1. awareness of the widespread distribution of micro-organisms
3. recognition of the need for safety standards to prevent the spread of disease through food

Skills

Students will demonstrate the following decision-making skills:

1. Researching
 - examining background information about alternative technologies for eliminating disease-causing organisms from food supplies
 - identifying perspectives and consequences on each alternative

Concepts

1. There is need for personal and public decision-making regarding the safe handling of food.
 - identify practical difficulties in the management of food supplies
 - identify and describe diseases that commonly result from improper food handling
2. Micro-organisms are found in a variety of habitats.
 - describe variations in size, shape and movement of micro-organisms
 - identify natural habitats of micro-organisms
 - identify habitats of micro-organisms in human-made environments and materials
 - describe examples of micro-organisms in human-made environments and materials
 - describe examples of micro-organisms that cause disease in humans

