

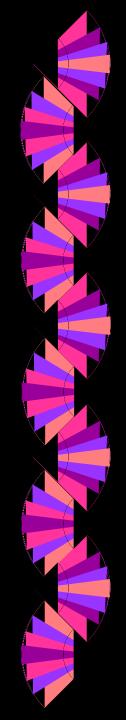
w WHAT IS MEDICAL MICROBIOLOGY?

w WHO STUDIES MEDICAL MICRO?

w WHY DO WE STUDY IT?

w WHERE DO WE STUDY IT?

W WHAT KNOWLEDGE WILL A STUDENT GAIN TAKING THIS COURSE?



w Medical Microbiology is the study of microorganisms:

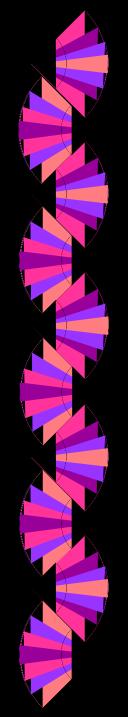
- Bacteria
- Fungus
- Parasites
- Viruses
- Most can only be seen with the microscope!



w Medical Microbiology studies are usually performed on human blood and body fluids.

w Medical Laboratory Technicians and Medical Laboratory Technologists perform the studies.

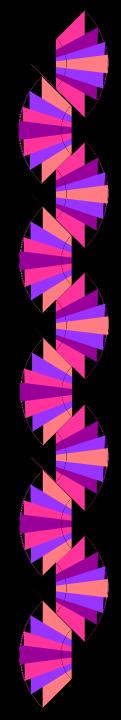
w Education level: 2 yr. AAS or 4 yr BS



w Microorganisms can cause disease in humans.

w Microbiologists determine the type of microorganism causing the disease and find a drug, usually an antibiotic, to inhibit the microorganism.

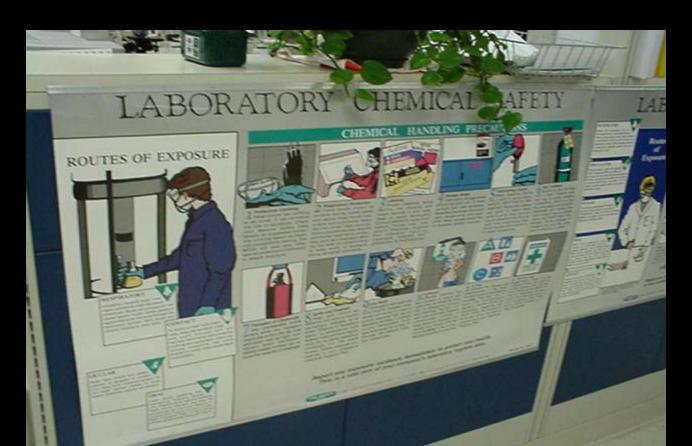
w Microbiologists continue to study the microorganisms through research to determine new antibiotics.



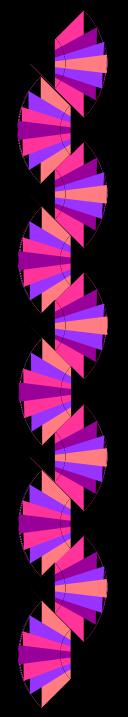
w Microorganisms are studied in clinical hospital laboratories, reference laboratories, and research facilities.



w All laboratories post signs regarding safety.







w Safety hoods are used to avoid splashing and inhaling possible pathogens.





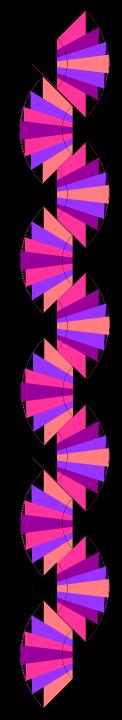
w A monitored refrigeration unit is essential for accurate results in microbiology.





wReagents, such as those used in this strep screen, aid in diagnosis of disease.





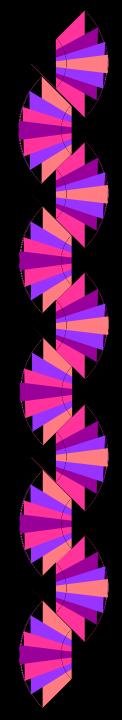
w A hospital microbiology laboratory





wBlood cultures are incubated and monitored electronically for bacterial and fungus growth.





w High tech instruments are used to aid in the identification of microorganisms.





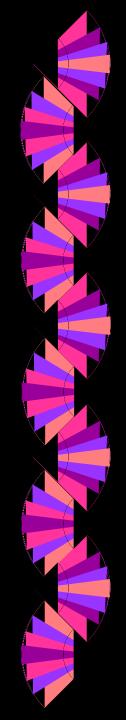
w Teamwork is essential in all types of laboratories, including the school laboratory.





w What is growing on this agar plate?





w At the end of this course, you will gain knowledge in the following:

- Normal flora of the human body
- Microbiological disease states related to the human body
- Media/Agar used to grow microorganisms
- Biochemical reactions of microorganisms
- Identification of microorganisms!