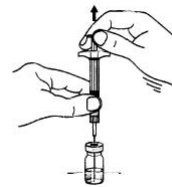
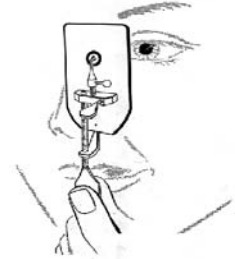


History of Microorganisms

- Microorganisms not known until 1670's.
- Had to have a microscope first.
 - Invented in 1595 by Zacharias Janssen
 - Was considered a toy for the rich.
- Anton Van Leeuwenhoek 1670's
 - Improved the microscope so much he's considered the father of the microscope.
 - First looked at water under a microscope
 - Discovered small animals.
 - Called them "animalcules" (small animals)
 - Probably were bacteria
- Edward Jenner 1790's
 - Developed the first vaccine
 - Noticed that milk maids who had cowpox did not get smallpox
 - Injected cowpox in volunteers
 - They did not get smallpox
- Ignaz Semmelweis and Oliver Wendell Holmes 1840's
 - Women were dying after giving birth from Child Bed Fever
 - Semmelweis and Holmes suggested washing hands between patients
 - When hands were washed between patients, Child Bed Fever almost vanished
- Joseph Lister 1860's
 - Many patients got sick and died after operations
 - Lister proposed disinfecting operating room and instruments between operations
- Louis Pasteur 1860's
 - People believed life arose "spontaneously"
 - Mice came from grain bags
 - Pasteur proved that life had to come from existing life
 - Proposed that germs caused disease
 - Develop pasteurization
 - Rapidly heating something to kill germs
- Robert Koch 1880's
 - Germs cause disease

Figure 1.1
LEEUVENHOEK'S MICROSCOPE



- Sir Alexander Fleming 1928
 - Discovered the "miracle drug" penicillin

