- Pharmaceutical microbiology: Manufacture of vaccines and antibiotics
- Recombinant DNA technology: Alteration of microbial genes to synthesize useful products.

WHAT ARE THE BASIC CHEMICAL REACTIONS OF LIFE?

Biochemistry:

The study of metabolism - the chemical reactions that occur in living organisms.

HWO DO GENES WORK?

Microbial Genetics

Genetics:

The scientific study of inheritance.

- → Genes are contained in molecules of DNA
- A gene's activity is related to the function of the specific professor.
 ecular Biology

Molecular Biology

, cell biology, and genetics to explain cell

concerned with genome sequencing.

Recombinant DNA Technology

Recombinant DNA Technology:

The joining together of DNA molecule from two different species that are inserted into a host organism to produce new genetic combinations that are value to science, medicine, agriculture, etc.

Gene Therapy:

A process that involves inserting a missing gene or repairing a defective one in human cells.

- 1.19 List 4 major questions that drive microbiological investigations today
 - 1: How can we develop successful programs that either control or eradicate infectious disease?

Campaign to have more people aware of how to prevent the spread of a