**UNIT 3: The Linkages Between Agriculture and Different Sciences and Applied Science Subjects**

**3.1 Agriculture described as an applied science**

Agriculture is an applied science. It is an integrated subject that brings together the elements of wide areas of basic science subjects such as physics, chemistry, and biology.

Note that biology is the **branch of science that primarily deals with the structure**, **function**, **growth**, **evolution** and **distribution of organism.** It isnatural science that studies life and living organisms, including their physical structure, chemical processes, molecular interactions, physiological mechanisms, development and evolution.

Chemistry is a branch of science with emphasis on the identification of the substances of which matter is composed; the investigation of their properties and the ways in which they interact, combine, and change; and the use of these processes to form new substances.

Physics is concerned with the nature and properties of matter and energy. Physics is different from chemistry and biology. It is made up of mechanics, heat, light radiation, sound, electricity, magnetism, and the structure of atoms.

Let us look at the physics, biology and physics subsystems of the JHS Integrated Science syllabus and state aspects described above.

We have described crop science animal science, soil science, mechanization of farm operations, processing and storage of products, operation of farm equipment agriculture and veterinary as **agriculture**

If you have looked at the definitions of crop science animal science, soil science, processing and storage which are agriculture critically, you will realize that they have relationships with **biology**.

If you have looked at the definitions of crop science animal science, soil science, processing and storage which are agriculture critically, you will realize that they have relationships with **chemistry.**

If you have looked at the definitions of Mechanization of farm operations, processing and storage of products, operation of farm equipment you will realize that they have relationships with **physics**.

These examples clearly describe Agriculture as an applied science.