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biology is the scientific study of life 1 2 3 it is a natural science with a broad scope but has several unifying themes that tie it together as a single coherent field 1 2 3 for instance all organisms are made up of cells that process hereditary information encoded in genes which can be transmitted to future generations biology is a branch of science that deals with living organisms and their vital processes biology encompasses diverse fields including botany conservation ecology evolution genetics marine biology medicine microbiology molecular biology physiology and zoology unit 1 intro to biology unit 2 chemistry of life unit 3 water acids and bases unit 4 properties of carbon unit 5 macromolecules unit 6 elements of life unit 7 energy and enzymes unit 8 structure of a cell unit 9 more about cells biology at khan academy explores life in all its forms from humans to bacteria and how living things convert energy grow and reproduce the course covers key biological molecules the role of dna and the complexity of cells biology is the study of life the word biology is derived from the greek words bios meaning life and logos meaning study in general biologists study the structure function in the intro to biology video we defined biology as the branch of science concerned with the study of living things or organisms that definition is pretty straightforward however it opens the door to more difficult and more interesting questions what is life what does it mean to be alive you are alive and so am i an extremely broad subject biology is divided into branches the current approach is based on the levels of biological organization involved e g molecules cells individuals populations and on the specific topic under investigation e g structure and function growth and development in simple terms biology is the study of life this is a very broad definition because the scope of biology is vast biologists may study anything from the microscopic or submicroscopic view of a cell to ecosystems and the whole living planet figure 1 2 biology is the study of living things it is broken down into many fields reflecting the complexity of life from the atoms and molecules of biochemistry to the interactions of millions of organisms in ecology biology is the branch of science that primarily deals with structure function growth evolution and distribution of organisms find out more about biology definition principles branches and importance the field of biology is subdivided into separate branches for convenience of study though all the subdivisions share basic principles biology encompasses fields such as botany genetics marine biology microbiology molecular biology and much more what is biology in simple terms biology is the study of life this is a very broad definition because the scope of biology is vast biologists may study anything from the microscopic or submicroscopic view of a cell to ecosystems and the whole living planet figure 1 2 biology is a natural science concerned with the study of life and living organisms modern biology is a vast and eclectic field composed of many specialized disciplines that study the structure function growth distribution evolution or other features of living organisms what is biology simply put it is the study of life in all of its grandeur biology concerns all life forms from the very small algae to the very large elephant but how do we know if something is living for example is a virus alive or dead from its earliest beginnings biology has wrestled with four questions what are the shared properties that make something alive how do those various living things function when faced with the remarkable diversity of life how do we organize the different kinds of organisms so that we can better understand them the meaning of biology is a branch of knowledge that deals with living organisms and vital processes how to use biology in a sentence the importance of biology spans 25 top reasons from fundamental life science insights to medical advances agricultural and biotechnology innovations unraveling evolutionary mysteries and homeostasis that tangibly transform lives biology is the study of living organisms from anatomy to zoology there are many different branches of study under the umbrella of biology a branch of biology is a specialized field or a sub discipline in a much broader field of biology biology in simple definition is the science of life it studies all living creatures from the microscopic to the macroscopic life forms biology online is the world s most comprehensive database of biology terms and topics since 2001 it has been the resource of choice for professors students and professionals needing answers to biology questions search over 75 000 terms news insights discoveries and trends in biology below featured terms all terms

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in the intro to biology video we defined biology as the branch of science concerned with the study of living things or organisms that definition is pretty straightforward however it opens the door to more difficult and more interesting questions what is life what does it mean to be alive you are alive and so am i

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biology is a natural science concerned with the study of life and living organisms modern biology is a vast and eclectic field composed of many specialized disciplines that study the structure function growth distribution evolution or other features of living organisms

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what is biology simply put it is the study of life in all of its grandeur biology concerns all life forms from the very small algae to the very large elephant but how do we know if something is living for example is a virus alive or dead

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