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cell in biology the basic membrane bound unit that contains the fundamental molecules of life and of which all living things are composed a single cell is often a complete organism in itself such as a bacterium or yeast other cells acquire specialized functions as they mature a cell has three main parts the cell membrane the nucleus and the cytoplasm the cell membrane surrounds the cell and controls the substances that go into and out of the cell the nucleus is a structure inside the cell that contains the nucleolus and most of the cell s dna a cell is defined as the smallest basic unit of life that is responsible for all of life s processes cells are the structural functional and biological units of all living beings a cell can replicate itself independently hence they are known as the building blocks of life all cells evolved from a common ancestor and use the same kinds of carbon based molecules learn how cell function depends on a diverse group of nucleic acids proteins lipids and sugars learn basic information about cells with an introduction to cells cells are the basis of all life and all living things are made from one or more cells the cell is the basic structural and functional unit of all forms of life every cell consists of cytoplasm enclosed within a membrane many cells contain organelles each with a specific function the term comes from the latin word cellula meaning small room most cells are only visible under a microscope cells are the most basic unit of life all cells have a membrane that separates them from the outside

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~~world although cells are small they are not simple cells contain different~~
components such as the cytoplasm ribosomes and genetic information in the form of dna created by sal khan from organelles to membrane transport this unit covers the facts you need to know about cells the tiny building blocks of life on the whole cell biology focuses on the structure and function of a cell from the most general properties shared by all cells to the unique highly intricate functions particular to cells all have the same basic structure and consist of three parts the cell membrane the cytoplasm and the nucleus a cell is the smallest unit of a living thing a living thing whether made of one cell like bacteria or many cells like a human is called an organism thus cells are the basic building blocks of all organisms cells are the basic unit of life in the modern world they are the smallest known world that performs all of life s functions all living organisms are either single cells or are multicellular organisms composed of many cells working together cell in biology the basic unit of which all living things are composed the smallest structural unit of living matter that is able to function independently a single cell can be a complete organism in itself as in bacteria and protozoans all cells acquire the molecules and ions they need from their surrounding extracellular fluid ecf there is an unceasing traffic of molecules and ions in and out of the cell through its plasma membrane examples glucose sodium and calcium ions first proposed by german scientists theodor schwann and matthias jakob schleiden in 1838 the theory that all plants and animals are made up of cells marked a great conceptual advance in biology and resulted in renewed attention to the living processes that go on in cells molecular biology of the cell is the classic in depth text reference in cell biology by extracting fundamental concepts and meaning from this enormous and ever

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~~growing field the authors tell the story of cell biology and create a coherent~~
framework through which non expert readers may approach the subject key points all
cells have a cell membrane that separates the inside and the outside of the cell and
controls what goes in and comes out the cell membrane surrounds a cell s cytoplasm
which is a jelly like substance containing the cell s parts cells contain parts
called organelles usually a cell has a single nucleus that contains all of its dna
molecules but some such as skeletal muscle cells have more than one nucleus the
nucleus protects the cell s dna while controlling all other cellular activities such
as cell division growth protein production and cell death a cell is the basic unit
of life that is responsible for the living and functioning of organisms 3 cell
biology is the study of the structural and functional units of cells cells are the
basis of life some connect body parts and store nutrients others fight disease and
transport gases some cells gather information and control certain body functions
while specialized cells are used for reproduction these concepts will be expanded on
as we progress and links will be posted to new material as it s available

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~~controlling all other cellular activities such as cell division growth protein~~
production and cell death

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