

LESSON 1: CELL STRUCTURES AND FUNCTIONS

INTRODUCTION

1. What are cells?
  - Basic units of living things
  - Building blocks of living things
2. A cell can be divided into 2 main parts.
  - ① protoplasm (Nucleus, cytoplasm)
  - ② plasma membrane
3. All cells have:
  - \* living component

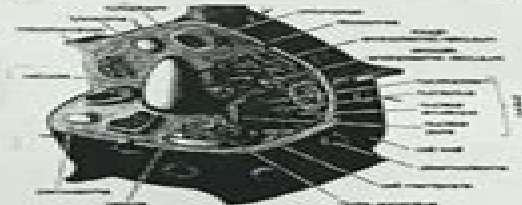
- a) Plasma membrane
- b) Nucleus
- c) Cytoplasm

4. All the content of a cell can only be seen under an electron microscope.

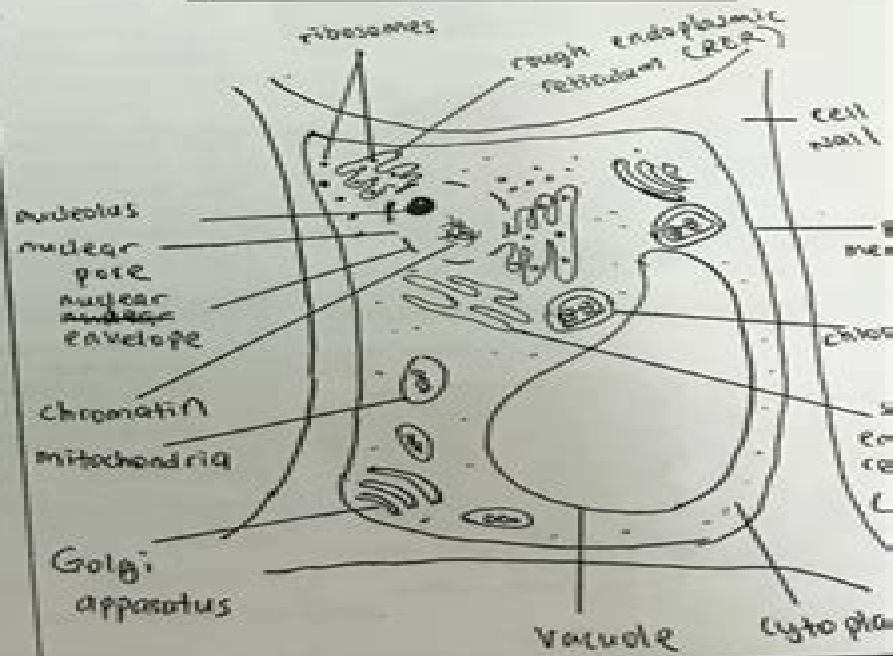
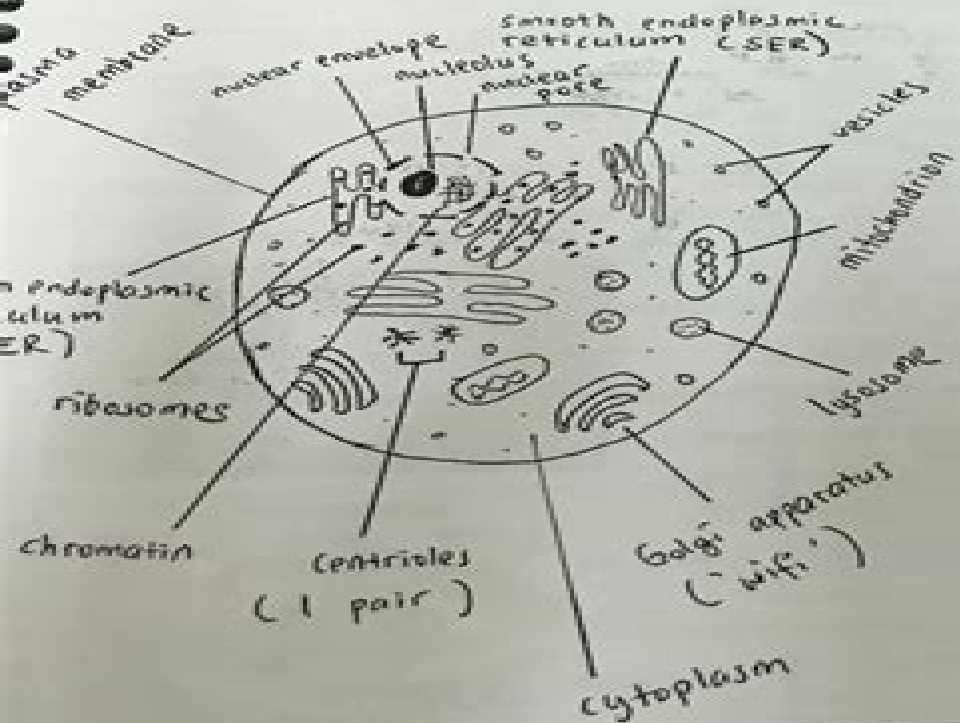
\* under light microscope → nucleus, cytoplasm, plasma membrane



ANIMAL CELL



PLANT CELL



# Biology Form 4 Chapter 6 Notes

**Ying-Ying Zheng**



## **Biology Form 4 Chapter 6 Notes :**

**Notes on books** Longmans, Green and co,1903 Six-Legged Soldiers Jeffrey A. Lockwood,2008-10-10 Six Legged Soldiers offers a brilliant portrait of the many weirdly creative truly frightening and ultimately powerful ways in which insects have been used as weapons of war terror and torture Beginning in prehistoric times and building toward a near and disturbing future the reader is taken on a journey of innovation and depravity Award winning science writer Jeffrey A Lockwood begins with the development of bee bombs in the ancient world and ranges up to the recent threat by ecoterrorists to release the notorious Medfly into California s crops The Evolution of Designs Philip Steadman,2008-06-03 The Evolution of Designs tells the history of the many analogies that have been made since the end of the eighteenth century between the evolution of organisms and the human production of artefacts especially buildings **The Open Society and Its Enemies: The spell of Plato** Karl Raimund Popper,1971 Popper was born in 1902 to a Viennese family of Jewish origin He taught in Austria until 1937 when he emigrated to New Zealand in anticipation of the Nazi annexation of Austria the following year and he settled in England in 1949 Before the annexation Popper had written mainly about the philosophy of science but from 1938 until the end of the Second World War he focused his energies on political philosophy seeking to diagnose the intellectual origins of German and Soviet totalitarianism The Open Society and Its Enemies was the result In the book Popper condemned Plato Marx and Hegel as holists and historicists a holist according to Popper believes that individuals are formed entirely by their social groups historicists believe that social groups evolve according to internal principles that it is the intellectual s task to uncover Popper by contrast held that social affairs are unpredictable and argued vehemently against social engineering He also sought to shift the focus of political philosophy away from questions about who ought to rule toward questions about how to minimize the damage done by the powerful The book was an immediate sensation and though it has long been criticized for its portrayals of Plato Marx and Hegel it has remained a landmark on the left and right alike for its defense of freedom and the spirit of critical inquiry **Ntg- Human Biology 5e Note-Taking G** Chiras,2005-05-27 **Bionomics** Michael Rothschild,2004 Calling for a fundamental rethinking of economics this book argues that a market economy is best understood as a living evolving ecosystem **Human Biology** Daniel D. Chiras,1999 With DaVinci s ubiquitous Vitruvian Man as a text icon even subjected to X ray Chiras U of Colorado U of Denver introduces students to the basics of life in the balance from molecules to humankind in 24 chapters Updates to this edition no dates are given for previous ones include rele *Latin Notes* ,1926 **The Scottish Educational Journal** ,1921 Periodical Articles on Religion, 1890-1899 Ernest Cushing Richardson,1911 **Wild Flower** ,1924 **The Quarterly Review of Biology** Raymond Pearl,1928 Includes section New biological books and other bibliographies Science Progress in the Twentieth Century ,1926 *Science Progress* ,1926 The Journal of Education ,1888 **The Selborne Magazine and "Nature Notes," the Organ of the Selborne Society ....** ,1908 **The Teachers' Aid** ,1904 *Books that Count* William

Forbes Gray,1912      **Life's Solution** Simon Conway Morris,2003-09-04 The assassin s bullet misses the Archduke s carriage moves forward and a catastrophic war is avoided So too with the history of life Re run the tape of life as Stephen J Gould claimed and the outcome must be entirely different an alien world without humans and maybe not even intelligence The history of life is littered with accidents any twist or turn may lead to a completely different world Now this view is being challenged Simon Conway Morris explores the evidence demonstrating life s almost eerie ability to navigate to a single solution repeatedly Eyes brains tools even culture all are very much on the cards So if these are all evolutionary inevitabilities where are our counterparts across the galaxy The tape of life can only run on a suitable planet and it seems that such Earth like planets may be much rarer than hoped Inevitable humans yes but in a lonely Universe      **Bookseller and the Stationery Trades' Journal** ,1887

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