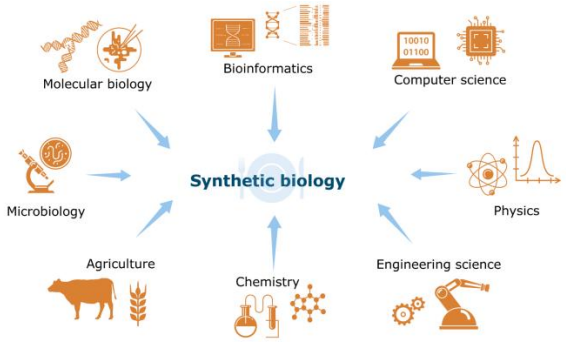
2018 Biology Entrance Exam

🇪🇹Grade 9 &10 /Common
🇪🇹Grade 11& 12 /New

እንኳን ለ **2018** አመተ ምህረት የትምህርት ዘመን አደረሳችሁ እያልን ከዚህ በታች እንዴት ከዘጠኝ እስከ አስራ ሁለተኛ ክፍል ያሉ ትምህርቶችን በአንድ እንዴት አገናኝታችሁ ማንበብ እንደምትችሉ እንዲሁም እኛ የምንሰጠው የ **Entrance Tricks Class** በዚሁ መልኩ ይሄን መሠረት በማድረግ እንደ ሚሆን ጭምር ልናሳውቃችሁ እንወዳለን።

BIOLOGY Related Content for 2018 Entrance

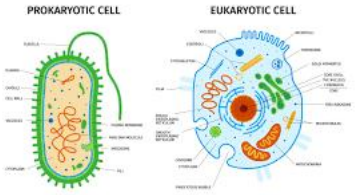
◆**Chapter 1; Concept of biology, biotechnology and application of biology = from grade 11 unit 1, and grade 12 unit 1**



1.1 Learning from nature
1.2 Biology and technology
    1.2.1 The benefits of biology to technology
    1.2.2 Uses of technology in biology
1.3 Impacts of biology and technology on society and the natural world
    1.3.1 Impacts of biology on the society and the natural world
    1.3.2 Impacts of technology on the society and the natural world
1.4 Ethical issues in biology
1.4.1 Ethical treatment of plants and animals during biological studies
Contents

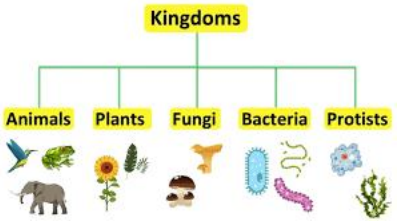
1.5. Application in conservation of natural resource
1.6. Food and nutrition security
1.7. Creating in conscious and ensuring sustainable development
1.8. Applications in biotechnology

◆Chapter 2; Cell biology = from grade 9 unit 3 (new) or grade 9 unit 2(old)



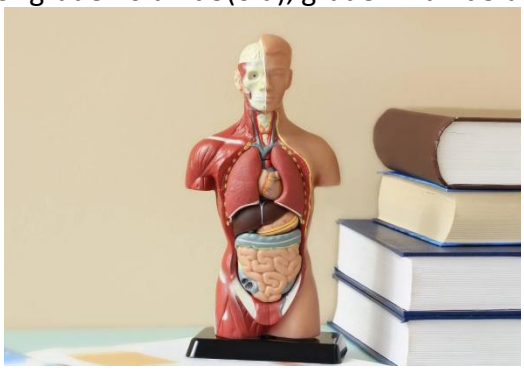
2.1. What is a cell?
2.2. Cell theory
2.3. Cell structure and function
2.4. Types of cells
2.5. Animal and plant cells
2.6. Observing cells under a microscope
2.7. The cell and its environment
    2.7.1. Passive transport
    2.7.2. Active transport
2.8. Levels of Biological Organization

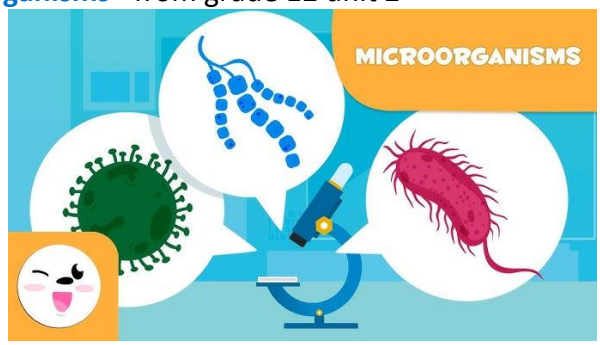
◆Chapter 3; Classification, plants and Animals = from grade 9 unit 2 (new) or grade 9 unit 5 (old), grade 10 unit 2(new) or grade 10 unit 4(old) and grade 11 unit 2

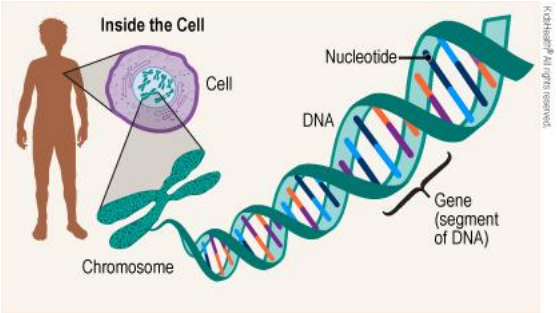


3.1. Characteristics of living things
3.2. Taxonomy of living things
    3.2.1. Principles of classification
    3.2.2. Taxonomic hierarchies in biological classification
3.3. Relevance of classification
3.4. Linnaean system of nomenclature
3.5. Common Ethiopian animals and plants
3.6. The five-kingdom system of classification
3.7. Characteristics of plants
3.8.Non-flowering and flowering plants
3.9.Structure and function of plant parts
3.10.Reproduction in plants
    3.10.1. Non-flowering

◆**Chapter 4; Human biology and health** = from grade 9 unit 5(new) or grade 9 unit 3(old), grade 10 unit 5(new) or grade 10 unit 3(old), grade 11 unit 5 and grade 12 unit 5

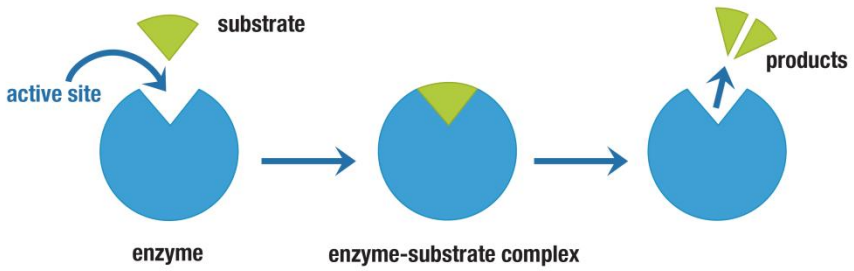




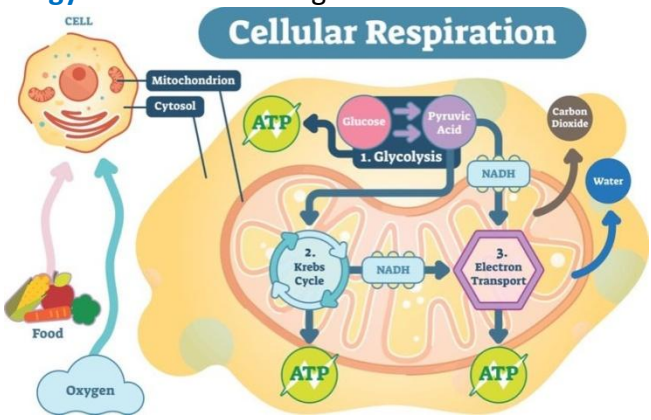


◆**Chapter 7; Environment, climate change, natural resources and ecology** = from grade 9 unit 6(new) or grade 9 unit 6 (old), grade 10 unit 5(new) or grade 10 unit 5(old), grade 11 unit 6 and grade 12 unit 6

◆**Chapter 8; Enzymes** =from grade 11 unit 3



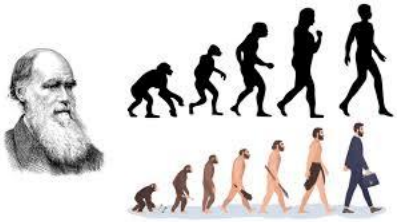
◆**Chapter 9; Energy transformation =**grade 12 unit 3



9.1 Cellular metabolism
9.2 Photosynthesis
- 9.2.1 Photosynthetic pigments
- 9.2.5 Light-independent reactions (Calvin cycle)

9.3 Contributions of photosynthesis for the continuity of life, for O2 and CO2 balance and global warming
9.4 Cellular respiration

◆**Chapter 10; Evolution =**from grade 12 unit 5



9.1. Evolution
- 9.1.1. Definition
- 9.1.2. Theories of evolution
- 9.1.3. The evidence for evolution
- 9.1.4. Natural selection: definition, types & examples
- 9.1.5. Human evolution
- 9.1.6. Mutation
- 9.1.7. Genetic drift
- 9.1.8. Gene flow (immigration and emigration)
- 9.1.9. Causes of species extinction

9.2. Renowned anthropologists in Ethiopia
9.3. Renowned evolutionists in Ethiopia

ENTRANCE TRICKS

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