

City Governments Of Addis Ababa Education bureau
Curriculum development and implementation directorate.

Subject		Biology Grade 7		Make up class		Total make up
class = 16						
No	Unit	Content	Sub content	No of periods (at normal condition)	No of condensin g periods	Unit Outcomes:
1	1	Biology and technology	1.1What is biology? 1.2 Industries that utilize biological knowledge 1.3 Relevance of biology to society 1.4 Biology and technological innovations 1.5Values in biology education	10	2	☐ Define biology, list some of its branches, state what these branches study and indicate that it is related to all natural sciences ☐ Describe how biological knowledge is utilized in the fields of agriculture, medicine and food ☐ Explain the relevance of biology to the society ☐ Give examples of technological innovations derived from biological knowledge ☐ Identify values developed in learning science
2	2	Cell biology	2.1 Microscope and its use 2.2 The cell 2.3 Looking at cells 2.4 Cell type, shape and size	13	2	☐ Define microscopes, classify them into simple and compound, identify their parts and tell the functions of each part ☐ Define cell, list parts of plant and animal cells seen under a compound microscope, tell the functions of each part and compare a plant cell with an animal cell ☐ Examine plant and animal cells under a microscope and draw and label the structures seen under a microscope

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						<ul style="list-style-type: none"> □ Show types, shapes, and sizes of cells using diagrams.
3	3	Human biology and health	3.1 The muscular and skeletal system 3.2 Human dentition	15	2	<ul style="list-style-type: none"> □ Describe the structures and functions of human skeleton and divide it into axial and appendicular □ List types of bones and joints, state their functions, give examples for each and demonstrate them by using models □ List types of muscles, explain their structures and functions and demonstrate how they work using models □ Describe how muscles and skeleton work together □ Describe the importance of physical exercise and proper diet for the health of bones, muscles and joints □ Name the different types of human teeth, relate them with their functions, define dental formula, show the dental formula of humans and compare it with that of some other mammals.
4	4	Plants	4.1 Diversity of plants 4.2 Flowering plants	25	4	<ul style="list-style-type: none"> □ Tell that animals are diverse in size, type and distribution, demonstrate love and respect to them and explain why insects are the most diverse group of animals □ Define metamorphosis, explain complete and incomplete

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						<p>metamorphosis and give examples of insects that reproduce by complete and incomplete metamorphosis.</p> <p>□ Describe how tsetse flies, army worm and maize borer affect humans and explain the methods of controlling them</p> <p>□ Explain the characteristics specific to social insects and give examples of social insects</p> <p>□ Explain the roles of queen, drones and workers in bees, explain methods of bee keeping and management of beehive, demonstrate the techniques of harvesting honey and compare a modern beehive with a traditional one.</p> <p>□ Construct a model of modern beehive, appreciate the behaviour of social insects and express an interest to investigate more about social insects</p>
5	5	Animals	<p>5.1 Diversity of animals</p> <p>5.2 Life histories of some insects</p> <p>5.3 Some economically important insects</p> <p>5.4 Social insects</p>	23	4	<p>□ Tell that animals are diverse in size, type and distribution, demonstrate love and respect to them and explain why insects are the most diverse group of animals</p> <p>□ Define metamorphosis, explain complete and incomplete metamorphosis and give examples of insects that reproduce by complete and</p>

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6	6	Environment	<p>6.1 Habitats</p> <p>6.2 Studying a habitat</p> <p>6.3 Food relationships</p>	16	2	<p>□ Define habitat, classify habitats into terrestrial and aquatic and give examples for each</p> <p>□ Define population and community and give examples for each</p> <p>□ Identify smaller habitats in their surrounding, examine organisms that dwell in them and write a report on their findings</p> <p>□ Use quadrats to estimate distribution of organisms in a given habitat,</p>

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						demonstrate methods of collecting and preserving plant and animal specimens and collect and preserve plant and animal specimens □ Describe food chain and food web with practical examples and construct a simple food chain by observing food relationship of organisms in their surrounding □ Explain the different trophic levels of a food chain, describe the pyramid of numbers using a diagram and indicate the trophic levels on the diagram of the pyramid of numbers.
Subject Biology Grade 8 make up class Total make up class = 9						
1	1	Biology and technology	1.1 Biology for development 1.2 Technological products used in biology	7	1	□ explain biology's contribution to development □ explain the role of technology in biology, list some technological products used in biology and tell the functions of these technological products.
2	2	Cell biology	2.1 Looking at unicellular organisms 2.2 single celled organisms	23	4	□ Use hand lenses and microscopes to observe unicellular organisms and name some unicellular organisms □ Describe the structure, habitat , locomotion, nutrition, reproduction and importance of some unicellular organisms □ Name different types of cells,

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						tissues, organs, and systems and state their functions □ Describe organism as the highest level of organization.
3	3	Human biology and health	3.1 The reproductive system 3.2 HIV and AIDS	24	4	<p>□ state the primary and secondary sexual characteristics of males and females, label the reproductive structures and give their functions</p> <p>□ explain the menstrual cycle and the cares that girls should take before and during menstruation</p> <p>□ define fertilization and explain its process □ mention pills and condoms as birth control methods and explain how they are used</p> <p>□ trace some common reproductive health problems, describe how they affect humans and how they could be prevented</p> <p>□ show the local, national and global distribution of HIV and AIDS, explain its impacts in the society and express willingness to give care and support to PLWHA</p> <p>□ demonstrate assertiveness, decision making, and problem solving skills as life skills that help to prevent HIV.</p>

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