



Pakistan Urdu School- Kingdom of Bahrain
Curriculum Implementation Plan for BIOLOGY Grade IX

No.	Month/Week	Starting Date	Topics from Textbook or Others (Specify Unit Titles and Numbers)	National Curriculum References (Competency, Standards, Themes)	Total Periods
1.	April /1week	8-4-2018	UNIT-1-INTRODUCTION TO BIOLOGY Introduction & branches of Biology Levels of Organization	Standard 1.a (USING SCIENTIFIC KNOWLEDGE) Students will be able to understand the principles of biology, diversity in life forms, structure and functions of cells, the processes of life, and continuity in life, how living things interact with each other and their environment and the applications of biology for human welfare.	5 days
2.	April/2 weeks	15-5-2018	UNIT-2 SOLVING BIOLOGICAL PROBLEM Biological Method Data Organization and Analysis Mathematics as an integral part of Scientific Process	Standard 1.b (USING SCIENTIFIC KNOWLEDGE) Understand the process of scientific investigation. They will be able to identify the problem, design and conduct experiments and communicate their findings using a variety of conventional and technological tools.	5 days
3.	April & May 2 weeks	29-4-2018	UNIT-3-BIODIVERSITY Biodiversity Aims and Principles of Classification History of Classification The Five Kingdoms Binomial Nomenclature Conservation of Biodiversity	Standard 1.a (USING SCIENTIFIC KNOWLEDGE) Students will be able to understand the principles of biology, diversity in life forms, structure and functions of cells, the processes of life, and continuity in life, how living things interact with each other and their environment and the applications of biology for human welfare.	10 days

4.	May/June 4weeks	13-5-2018	UNIT-4-THE CELL Microscopy and the Emergence of Cell Theory Cellular Structures and Functions Active and Passive Transport of matter Tissues	Standard 1.a (USING SCIENTIFIC KNOWLEDGE) Students will be able to understand the principles of biology, diversity in life forms, structure and functions of cells, the processes of life, and continuity in life, how living things interact with each other and their environment and the applications of biology for human welfare.	5 days
5.	August	28-8-2018	Revision		5 days
6.	September	4-9-2018	Commencement of first terminal exam		
7.	September &October/2 weeks	23-9-2018	UNIT-5-CELL CYCLE Cell Cycle Mitosis Meiosis Necrosis and Apoptosis	Standard 1.a (USING SCIENTIFIC KNOWLEDGE) Students will be able to understand the principles of biology, diversity in life forms, structure and functions of cells, the processes of life, and continuity in life, how living things interact with each other and their environment and the applications of biology for human welfare.	10 days
8.	October/1 week	7-10-2018	UNIT-6-ENZYMES Definition and Characteristics of Enzymes Mechanism of Enzyme Action Specificity of Enzyme	Standard 1.b (USING SCIENTIFIC KNOWLEDGE) Students will be able to understand the processes of scientific investigation. They will be able to identify a problem, design and conduct experiments and communicate their findings using a variety of conventional and technological tools.	5 Days
9.	October/2 weeks	14-10-2018	UNIT-7-BIOENERGETICS Introduction and the Role of ATP	Standard 1.b (USING SCIENTIFIC KNOWLEDGE)	

			Photosynthesis Respiration	Students will be able to understand the processes of scientific investigation. They will be able to identify a problem, design and conduct experiments and communicate their findings using a variety of conventional tools.	10 days
10.	October & November/2 weeks	28-10-2018	UNIT-8-NUTRITION Mineral Nutrition in Plants Components of Human Food Balanced Diet Problems related to Nutrition Ingestion, Digestion and Absorption of Food in Man Disorders of Gut	Standard 2.a (CONSTRUCTING NEW SCIENTIFIC KNOWLEDGE) Students will be able to display a sense of curiosity and wonder about the natural world and demonstrate an increasing awareness that this has led to new developments in science and technology	14 Days
11.	November/1 week	20-11-2018	Revision		
	November& December	27-11-2018	Commencement of second terminal exam		
12.	January/4 weeks	2-1-2019	UNIT-9-TRANSPORT Transport in Plants Transport in Man: Blood Human Heart Blood Vessels General Plan of Human Blood Circulatory System Cardiovascular Disorders	Standard 1.a (USING SCIENTIFIC KNOWLEDGE) Students will be able to understand the principles of biology, diversity in life forms, structure and functions of cells, the processes of life, and continuity in life, how living things interact with each other and their environment and the applications of biology for human welfare.	20 Days
13.	January & February/1 Week and 3 days	28-1-2018	Revision		8 Days
14.	February	10-2-2018	Prelim exam		