

PAKISTAN INTERNATIONAL SCHOOL, BURAIDAH
SYLLABUS BREAKUP

Class: VII-C

Subject: SCIENCE

Number of Teaching Weeks in First Term: (1 - 16)

Number of Teaching Weeks in Second Term: (17 - 32)

Name of Text Book:

Week No.	Chapter No.	Article Name	Topic	Book Page Numbers
1	1	INTRODUCTION	• To explain the differences between heat and temperature	2
		Temperature and Heat	Test Yourself	3
		Temperature and Heat	kinetic theory.	4
		Temperature and Heat	Test Yourself	5-6
2	1	Transfer of Heat	conduction	7-8
		Transfer of Heat	Test Yourself	9-10
		Transfer of Heat	convection, radiation	11-13
		Transfer of Heat	Test Yourself	
3	2	Transfer of Heat	Test Yourself	
		exercise	Chapter # 1	
		INTRODUCTION	To explain the structure and function of a plant	14-15
		structure and functions of a plant	Test Yourself	14-15
4	2	osmosis	To describe the structure of a leaf.	16-17
		osmosis	Test Yourself	16-17
		transpiration.	state the factors which affect the speed of transpiration.	18-20
		transpiration.	Test Yourself	18-20
5	2	flower	name the different parts of a complete flower and state their functions.	21-26
		flower	Test Yourself	21-26
		exercise	exercise	27-29
		Test	Chapter # 1	

Week No.	Chapter No.	Article Name	Topic	Book Page Numbers
6	3	INTRODUCTION	To introduce some of the scientists who made important discoveries about the atom.	33-35
		chemical symbols	To introduce some of the scientists who made important discoveries about the atom.	33-35
		chemical symbols	To introduce some of the scientists who made important discoveries about the atom.	
		chemical symbols	Test Yourself	
7	3	periodic table	To introduce the periodic table as a way of classifying elements.	33-35
		periodic table	To introduce the periodic table as a way of classifying elements.	36-37
		periodic table	Test Yourself	36-37
		compounds	To explain how compounds are formed.	38-39
8	4	compounds	Test Yourself	40-41
		exercise	exercise	44-45
		Test	Chapter # 2	
		INTRODUCTION	distinguish between magnetic and non-magnetic materials.	48-48
9	4	magnetic materials.	state the properties of magnets.	50-51
		magnetic materials.	identify the shape and direction, of the magnetic field around a bar magnet.	50-51
		induced magnetism	demonstrate how an electromagnet is made.	52
		induced magnetism	demonstrate how an electromagnet is made.	52
10	4	electromagnets	Test Yourself	53
		electromagnets	Test Yourself	53
		uses	To show how magnets and electromagnets can be used in a number of devices	54
		uses	Test Yourself	54
11	5	exercise	exercise	57-59
		Test	Chapter # 3	
		INTRODUCTION	To show how diet, exercise, smoking and other drugs affect health.	60-61
		eating disorders	identify some eating disorders, including diabetes, heart disease, asthma, and arthritis.	62

Week No.	Chapter No.	Article Name	Topic	Book Page Numbers
12	5	eating disorders	Test Yourself	63
		drugs	To show how diet, exercise, smoking and other drugs affect health.	64
		smoking	to show how diet, exercise, smoking and other drugs affect health.	65
		smoking	Test Yourself	65
13	5	keeping fit	to show how diet, exercise, smoking and other drugs affect health.	66
		keeping fit	Test Yourself	66
		exercise	exercise	68-70
		Test	Chapter # 4	
14	6	INTRODUCTION	To show the difference between physical and chemical changes.	72-73
		chemical reaction	define chemical reaction.	73
		chemical reaction	Test Yourself	73
		types of chemical reaction	synthesis, decomposition	74-75
15	6	types of chemical reaction	Test Yourself	78
		types of chemical reaction	displacement, combustion	79
		types of chemical reaction	Test Yourself	79
		exercise	exercise	80-83
16		Test	Chapter # 5	
		Test	Chapter # 6	
		Revision	Chapter # 1	
		Revision	Chapter # 2	
17		Revision	Chapter # 3	
		Revision	Chapter # 4	
		Revision	Chapter # 5	
		Revision	Chapter # 6	

Week No.	Chapter No.	Article Name	Topic	Book Page Numbers
18	7	INTRODUCTION	how sounds are made	84
		How Sounds Travel	how sound travels through different media	85
		Sound as a Wave	introducing the concepts of frequency and amplitude.	86
		Speed of Sound	Test Yourself	87
19	7	Echo	explain a sound wave and explain an echo.	88
		pitch	explain how changes in frequency and pitch of a sound wave affect a sound.	89-90
		pitch	Test Yourself	89-90
		Noise	how noise pollute the surrounding	91-92
20	7	Noise	Test Yourself	91-92
		exercise	exercise	93-95
		INTRODUCTION	how living things release energy.	96-97
		Respiration	Test Yourself	96-97
21	8	breathing	distinguish between respiration and breathing.	98-99
		breathing	Test Yourself	98-99
		aerobic respiration	explain the difference between aerobic and anaerobic respiration.	100-101
		aerobic respiration	Test Yourself	100-101
22	8	lungs	To explain that cells need a supply of food and oxygen for respiration.	102-103
		lungs	Test Yourself	102-103
		exercise	Chapter # 8	104-106
		Test	Chapter # 7	104-106
23	9	acids	identify some acids and their everyday uses.	108-109
		alkalis	explain the difference between a base and an alkali.	110-111
		acids and alkalis	Test Yourself	111
		indicators	how acids and alkalis can be identified and distinguished from each other	112

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24	9	indicators	Test Yourself	113
		neutralization	explain neutralization.	114-115
		exercise	Chapter # 9	116-118
		Test	Chapter # 8	
25	10	INTRODUCTION	how we see objects.	122-123
		light	Test Yourself	123
		reflection of light	Define and explain the reflection of light.	124
		refraction of light	explain reflection and refraction.	125
26	10	reflection and refraction	Test Yourself	126
		colours of spectrum	reflection and refraction	127-129
		colours of spectrum	Test Yourself	130-131
		exercise	Chapter # 10	132-135
27	11	heart	the human circulatory system, including the heart and blood vessels.	136-137
		blood	how the heart works and how blood is pumped around the body.	138-139
		heart and blood	Test Yourself	140
		diffusion	explain the diffusion through the tissue	140-141
28	11	blood vessels	explain the difference between an artery and a vein	142-143
		blood vessels	Test Yourself	
		the pumping cycle	explain the pumping cycle of the heart	144-145
		the pumping cycle	Test Yourself	145
29	11	heart diseases	explain the diseases of heart	145
		heart diseases	Test Yourself	145
		exercise	Chapter # 11	146-149
		Test	Chapter # 10	

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30	12	variation	suggest ways in which variation can be acquired within a species.	150-152
		variation	Test Yourself	153-154
		variation	suggest ways in which variation can be acquired within a species.	150-152
		variation	Test Yourself	153-154
31	12	classification	introduce the scientific classification of living things	155-156
		classification	introduce the scientific classification of living things	157-158
		classification	Test Yourself	158-160
		exercise	Chapter # 12	161-163
32	13	igneous rocks	how igneous rocks are formed.	166-167
		igneous rocks	Test Yourself	168
		weathered materials	how weathered materials are transported to form sediment.	168
		weathered materials	Test Yourself	169
33	13	transporting weathering material	how weathered materials are transported to form sediment.	170
		transporting weathering material	Test Yourself	171-172
		limestone	how metamorphic rocks are formed by heat and pressure.	173-176
		exercise	Chapter # 13	177-181
34		Revision	Chapter # 7,8	
		Revision	Chapter # 9, 10	
		Revision	Chapter # 11, 12	
		Revision	Chapter # 13	