Syllabus Breakdown

SCIENCE GRADE 7 AIR FOUNDATION SCHOOL SYSTEM

ISLAMABAD | PAKISTAN



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Teaching weeks per annum

For the regions where academic session begins in April

FIRST TERM: APRIL – SEPTEMBER

Expected Teaching Weeks

April	Teaching Week 1	Teaching Week 2	Teaching Week 3	Teaching Week 4 First Midterm Examination Summer Vacation	
Мау	Teaching Week 5	Teaching Week 6	Teaching Week 7		
June	Summer Vacation	Summer Vacation	Summer Vacation		
July	Summer Vacation	Summer Vacation	Summer Vacation	Summer Vacation	
August	Teaching Week 8	Teaching Week 9	Teaching Week 10	Teaching Week 11	
September	Teaching Week 12	Teaching Week 13	Midterm Examination	Mid Term Examination	

SECOND TERM: OCTOBER - MARCH

Expected Teaching Weeks

October	Teaching Week 14	Teaching Week 15	Teaching Week 16	Teaching Week 17
November	Teaching Week 18	Teaching Week 19	Teaching Week 20	Teaching Week 21
December	Teaching Week 22	Second Midterm Examination	Winter Vacation	Winter Vacation
January	Teaching Week 23	Teaching Week 24	Teaching Week 25	Teaching Week 26
February	Teaching Week 27	Teaching Week 28	Teaching Week 29	Teaching Week 30
March	Revision Work	Annual Examination	Annual Examination	PTM & Annual Day

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Teaching weeks per annum

For the regions where academic session begins in August

FIRST TERM: AUGUST – DECEMBER

Expected Teaching Weeks

Teaching Week 1	Teaching Week 2	Teaching Week 3	Teaching Week 4	
Teaching Week 5	Teaching Week 6	Teaching Week 7	First Midterm Examination	
Teaching Week 8	Teaching Week 9	Teaching Week 10	Teaching Week 11	
Teaching Week 12	Teaching Week 13	Teaching Week 14	Teaching Week 15	
Midterm Examination	Midterm Examination	Winter Vacation	Winter Vacation	
	Teaching Week 5 Teaching Week 8 Teaching Week 12	Teaching Week 5Teaching Week 6Teaching Week 8Teaching Week 9Teaching Week 12Teaching Week 13	Teaching Week 5Teaching Week 6Teaching Week 7Teaching Week 8Teaching Week 9Teaching Week 10Teaching Week 12Teaching Week 13Teaching Week 14	

SECOND TERM: OCTOBER – MARCH

Expected Teaching Weeks

January	Teaching Week 16	Teaching Week 17	Teaching Week 18	Teaching Week 19	
February	Teaching Week 20	Teaching Week 21	Teaching Week 22	Second Midterm Exam	
March	Teaching Week 23	Teaching Week 24	Teaching Week 25	Teaching Week 26	
April	Teaching Week 27	Teaching Week 28	Teaching Week 29	Teaching Week 30	
May	Revision Work	Annual Examination	Annual Examination	PTM & Annual Day	



Allocation of periods

Subjects and period distribution for preparing timetable, syllabus breakdown, lesson plans etc.

SN	SUBJECT		JUNIOR		PRIN	1ARY		SECONDARY		EACH	
		GRADE – 1	GRADE – 2	GRADE – 3	GRADE – 4	GRADE – 5	GRADE – 6	GRADE – 7	GRADE – 8	SUBJECT	
										PER	
										ANNUM	
1	English Language	5	5	5	5	5	5	5	5	150	
2	Urdu Language	5	5	5	5	5	5	5	5		
3	Mathematics	5	5	5	5	5	5	5	5		
4	Science	-	-	-	5	5	5	5	5		
5	General Knowledge	5	5	5	-	-	-	-	-		
6	Sindhi Language ¹	4	4	4	4	4	4	4	4	120	
7	Social Studies	-	-	-	4	4	-	-	-		
8	Islamiyat	4	4	4	4	4	4	4	4		
9	Nazra-e-Quran ²	4	4	4	4	4	4	4	4		
10	Geography	-	-	-	-	-	3	3	3	90	
11	Computer Science	3 SRM ³	3 SRM	3 SRM	3 SRM	3 SRM	3	3	3		
12	Life Skills	3 SRM	3 SRM	3 SRM	-	-	-	-	-		
13	Artwork	3 SRM	3 SRM	3 SRM	-	-	-	-	-		
14	History	-	-	-	-	-	2	2	2	60	
15	Life Skills & Art	-	-	-	2 SRM	2 SRM	-	-	-		
		-	-	-	-	-	1 SRM	1 SRM	1 SRM	30	
F	PERIODS PER WEEK	37	37	37	37	37	37	37	37		

¹ In Sindh Region only

² In all regions except Sindh

³ SRM: (Supplementary Reading Material)





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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
1 /30	1.	Unit# 01, Scientific Process Skills Reading and Explanation page: 1 & 2		
	2.	Evidence & sources of Evidencepage: 2 to 4Reading and Explanation		
	3.	Evidence & sources of Evidencepage: 4 to 5Reading and Explanation		
	4.	Testing predictions with respect to evidence page: 6-8		
	5.	Activities page: 8		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
2 /30	6.	BIOLOGY: CHPATER 1: Plant SystemRoot & shoot System, Internal structure of dicot stem.page: 10-12		
	7.	Transport System in plantspage: 12-14		
	8.	Photosynthesis page: 14-16		
	9.	Plants leaves are adapted for photosynthesis page: 16-17		
	10.	Transpiration page: 18-19		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER		SIGN CR/CT	DATE
3 /30	11.	Importance of Transpiration	page: 19-20		
	12.	Nutrients of Plants	page: 20-21		
	13.	Exercises: Q 1 to 3.	page: 22		
	14.	Exercises: Q 4.	page: 22		
	15.	Exercises: Q 5 (parts i to iv).	page: 22-23		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
4 /30	16.	Exercises: Q 5 (parts vi to viii). page: 22-23		
	17.	Think about it and activities. page: 23		
	18.	Projects. page: 23		
	19.	Unit:2 Human Respiratory Systempage: 24-25Respiration		
	20.	How we Breath page: 25-27		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
5 /30	21.	Types of Respiration, The Human Transport System, The Heart and Exercise page: 27-28		
	22.	The Heart page: 29-31		
	23.	The Blood Circulation, Arties, veins and capillaries page# 31-33		
	24.	The Blood Circulation, Arties, veins and capillaries page# 31-33		
	25.	Blood, Red Blood cells page# 34-36		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER		SIGN CR/CT	DATE
6 /30	26.	Blood, Red Blood cells	page# 34-36		
	27.	Exercises: Q 1 to 3	page: 37-38		
	28.	Exercises: Q 4	page: 38		
	29.	Exercises: Q 5	page: 38		
	30.	Exercises: Q 5	page: 38		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
7 /30	31.	Think about it, Activitiespage: 39		
	32.	Projects page: 39		
	33.	Chemistry: Chapter 4: Structure of an Atom to concept check page: 53-55		
	34.	Mass number, Difference between atomic number and mass number to "The arrangement of electrons in shells of elements". page: 55-56		
	35.	Filling Electron levels & Structure of an atom.page: 57-58Concept Check		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER		SIGN CR/CT	DATE
8 /30	36.	Recognize periods and groups in the periodic table	page; 59-60		
	37.	Recognize periods and groups in the periodic table	page; 59-61		
	38.	Exercises: Q 1 to 4 page: 62-63			
	39.	Exercises: Q 5 page: 63			
	40.	Exercises: Q 6 page: 63			

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
9 /30	41.	Think about it, Activitiespage: 63-64		
	42.	Projects page: 64		
	43.	Chapter: 5 Physical and Chemical Changes page: 65-66 Physical Changes:		
	44.	Chemical Changes, difference between physical and chemical changes & Concept check page: 67-68		
	45.	Examples of Chemical Changes page: 68-70		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER		SIGN CR/CT	DATE
10/30	46.	Physical and Chemical properties of matter 8 Concept Map page: 71-7			
	47.	Exercises: Q 1 to 3 page: 73			
	48.	Exercises: Q 4 page: 74			
	49.	Exercises: Q 5 & 6 page: 74	1		
	50.	Activities & Projects page: 74	ŀ		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
11/30	51.	Chapter: 5 Physical and Chemical Changespage: 65-66Physical Changes:		
	52.	Chemical Changes, difference between physical and chemical changes & Concept check page: 67-68		
	53.	Examples of Chemical Changes page: 68-70		
	54.	Chapter 8: Forces and Motionpage: 99-101Force, Some effects of force, Measuring forces, Balanced and Unbalanced Forces		
	55.	Speed, Average Speed, Activity Measuring Speed page: 102-103		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
12/30	56.	Distance Time Graphs, Interpreting Graphs page: 103-104		
	57.	Distance Time Graphs, Interpreting Graphs page: 103-104		
	58.	Types of Forces page: 105-106		
	59.	Gravitational Force or Gravity page: 106-108		
	60.	Exercises: (Q1 to 3) page; 109-110		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
13/30	61.	Exercises: (Q 4) page; 109-110		
	62.	Exercises: (Q 5) page; 110		
	63.	Think about it & Activities page: 110-111		
	64.	Projects page: 111		
	65.	Chapter# 09, Waves and Energy page: 112-113 Mechanical Waves, Longitudinal waves, Transverse waves		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
14/30	66.	Chapter# 09, Waves and Energy page: 112-113 Mechanical Waves, Longitudinal waves, Transverse waves		
	67.	Difference between Longitudinal waves and Transverse waves.Electronic waves and Sound Waves.page: 114-115		
	68.	The Properties of waves till Pitch to loudness and amplitude page: 115-118		
	69.	Factors affecting pitch and Loudness of sound.page: 118-121		
	70.	Exercises: (Q 1 to 3) page: 122-123		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
15/30	71.	Exercises: (Q 4) page: 123		
	72.	Exercises: (Q 4) page: 123		
	73.	Exercises: (Q 5) page; 124		
	74.	Think about it & Activities page: 124-125		
	75.	Projects page: 125		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
16/30	76.	BIOLOGY: CHAPTER 3: Immunity and Diseasespage:40-41Pathogen, Viruses and FungiPage:40-41		
	77.	How Pathogens cause disease? How are Pathogens spread? page: 41-42		
	78.	Types of immunity. page: 42-43		
	79.	Adaptive immunity & Types of Adaptive immunity page: 44-45		
	80.	Ways to add additional layers of defense.page: 46-47		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE	NUMBER	SIGN CR/CT	DATE
17/30	81.	Exercises: (Q 1 to 2 & 2a (short questions)	page: 48		
	82.	Exercises: (Q 3(Long questions)	page: 48		
	83.	Activities	page: 49		
	84.	Projects	page: 49		
	85.	Test Yourself Chapter: 1 , 2 & 3	page: 50-51		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
18/30	86.	CHEMISTRY: CHAPTER 6: Chemical Bonds page:75-77 Valency, Valence Number of different Groups, Discuss and Answer		
	87.	Ions, Cations, Anions page: 77-78		
	88.	Chemical Formulae, Concept Check page: 78-80		
	89.	Chemical Bonds, Concept Check and Map page: 80-81		
	90.	Exercises (Q 1 to 3) page: 82		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER		SIGN CR/CT	DATE
19/30	91.	Exercises (Q 4)	page: 82		
	92.	Exercises (Q 5 & 6)	page: 82-83		
	93.	Activities	page: 83		
	94.	Projects	page: 83		
	95.	CHAPTER 7: Solutions Solution, Solute, Solvent, Soluble ar			

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
20/30	96.	Saturated Solutions, Dilute and Concentrated Solutions, Solubility Page: 85-87		
	97.	Factors affecting Solubilitypage: 87-88		
	98.	Different solvents are needed to dissolve different solutes, Effectiveness of various cleaning solutions, Concept Map page: 88-89		
	99.	Exercises (Q 1 to 3) page: 90-91		
	100.	Exercises (Q 4) page: 91		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAG	E NUMBER	SIGN CR/CT	DATE
21/30	101.	Exercises (Q 5)	page: 91		
	102.	Exercises (Q 5)	page: 91		
	103.	Exercises (Q 6) & Activities	page: 91-92		
	104.	Projects	page: 92		
	105.	Test Yourself (Chapter 4 to 6)	page: 93-95		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
22/30	106.	Test Yourself (Chapter 7)page: 96-97		
	107.	PHYSICS: Chapter 10: Heat and Temperature. The Celsius Scale, The Absolute Zero and The Kelvin Scale page: 125-127		
	108.	PHYSICS: Chapter 10: Heat and Temperature. The Celsius Scale, The Absolute Zero and The Kelvin Scale page: 125-127		
	109.	Heat on the move, Concept Check, modes of Heat transfer page: 127-128		
	110.	Modes of Heat transfer page: 129-130		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING	PAGE NUMBER		SIGN CR/CT	DATE
23/30	111.	Land Breeze to Ocean currents		page: 131-132		
	112.	Radiation to Thermal insulation in b	uildings.	page: 133-135		
	113.	Exercises (Q 1 to 3)	page: 136			
	114.	Exercises (Q 3)	page: 136			
	115.	Exercises (Q 4)	page: 137			

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
<mark>24</mark> /30	116.	Exercises 6 & Activities page: 137		
	117.	Projects page: 137		
	118.	SPACE SCIENCES: Chapter 11: Earth and Space page: 138-139 What is gravity? To The Gravity keeps planets in their orbits.		
	119.	Weightlessness on the Moon to High and low tides. page: 140-141		
	120.	Movement of Earth and Seasons to Constellations visible at different times of the year. page: 141-142		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLU	JDING PAGE NUMBER	SIGN CR/CT	DATE
<mark>25</mark> /30	121.	Seasons on the Earth	page: 143-144		
	122.	Exercises (Q 1to 2)	page: 145		
	123.	Exercise (Q 3)	page: 145-146		
	124.	Exercise (Q 4)	page: 146		
	125.	Exercise (Q 5)	page: 146		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
26/30	126.	Activities page: 146		
	127.	Activities page: 146		
	128.	Projects page: 146		
	129.	CHPATER 12: Technology in Everyday Life.page: 147Water Conservation while irritating plants.		
	130.	Experiment (A Simple Drip System) page: 148		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
27/30	131.	Experiment (Sprinkler Irrigation) page: 149		
	132.	Food Preserving Techniques to How to make and preserve pickles? page:150		
	133.	How to make and Preserve Jam? page: 151		
	134.	Making and Preserving Juicespage: 152		
	135.	How make a simple stethoscope? page: 153-154		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
28/30	136.	Experiment (How to make a hand sanitizer?) page: 154		
	137.	Making Sanitizer at Home (Experiment)page: 155		
	138.	Test Yourself: Chapter 8: Forces and Motionpage: 156-157		
	139.	Test Yourself: Chapter 8: Forces and Motionpage: 156-157		
	140.	Test Yourself: Chapter 9: Waves and Energypage: 157-158		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
29 /30	141.	Test Yourself: Chapter 10: Heat and Temperaturepage: 159		
	142.	Test Yourself: Chapter 11: Earth and Spacepage: 160-161		
	143.	Test Yourself: Chapter 12: Technology in Everyday Lifepage: 161		
	144.	Test: BIOLOGY: Chapter 1 to 3.page: 10 to 52		
	145.	Test: CHEMISTRY: Chapter 4 to 5.page: 53 to 74		

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WEEK	[150]	UNIT & TOPIC CONTENT INCLUDING PAGE NUMBER	SIGN CR/CT	DATE
30/30	146.	Test: CHEMISTRY: Chapter 6 to 7.page: 75 to 98		
	147.	Test: PHYSICS: Chapter 8 to 9.page: 99 to 124		
	148.	Test: PHYSICS: Chapter 10page: 125 to 137		
	149.	Test: SPACE SCIENCES: Chapter 11page: 138-146		
	150.	Test: SPACE SCIENCES: Chapter 12page: 147-161		

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