



**APSACS SSC Syllabus Pack  
Class IX  
Cold & Warm Region  
2020-21**

**ARMY PUBLIC SCHOOLS & COLLEGES SYSTEM SECRETARIAT**

## Academic Calendar 2020-2021

<b>APSACS Syllabus Pack (5 Blocks- 25 Weeks Study Time )</b>		
<ul style="list-style-type: none"> <li>• <b>80% Course to be studied from Block 1-4:</b> (29 June -07 Nov2020)</li> <li>• <b>20% course to be studied in Block 5:</b> (19 Nov - 24 Dec2020)</li> <li>• <b>Winter Break (10 days) From 25<sup>th</sup> of December 2020 to 3<sup>rd</sup> January2021</b></li> <li>• <b>Revision, syllabus completion&amp; Test Series:(Jan 04 – 20 Feb)</b></li> </ul>		
# of study Weeks	Week Dates	Class IX
<b>Block 1(5wks) 29 June – 01 August</b>		
1.	29 June – 04 July	Syllabus Pack
2.	06 July – 11 July	
3.	13 July – 18 July	
4.	20 July – 25 July	
5.	27July – 01 Aug	
<b>Block 2 (5wks) 03 Aug – 05 Sep</b>		
6.	03 Aug – 08 Aug	Syllabus Pack
7.	10 Aug - 15 Aug	
8.	17 Aug – 22 Aug	
9.	24 Aug – 29 Aug	
10.	31 Aug – 05 Sept	
<b>Block 3 (5wks) 07 Sep – 10 Oct</b>		
11.	07Sept - 12Sept	face to face teaching
12.	14 Sept - 19Sept	
13.	21 Sept - 26Sept	
14.	28 Sept - 03Oct	
15.	05 Oct – 10Oct	
<b>Block 4 (4wks) 12 Oct – 07 Nov</b>		
16.	12 Oct – 17 Oct	face to face teaching
17.	19 Oct - 24Oct	
18.	26 Oct - 31Oct	
19.	02 Nov – 07 Nov	Revision
20.	09 Nov – 14 Nov	<b>School Assessments for FBISE Admission</b>

<b>Block 5 (04 wks + 02 days) 16Nov – 24 Dec</b>		
21.	16 Nov – 21Nov	<b>School Assessments</b>
22.	23 Nov – 28 Nov	<b>School Assessments (04 days)</b>
23.	30 Nov - 05 Dec	face to face teaching
24.	07 Dec -12 Dec	
25.	14 Dec -19 Dec	
26.	21 Dec-24 Dec	
<b>Winter Break (10 days) From 25 December 2020 – 03 January 2021</b>		
<b>Block 6 (03wks) 04 Jan – 23 Jan</b>		
27.	04 Jan – 09 Jan	face to face teaching
28.	11 Jan – 16 Jan	
29.	18 Jan – 23 Jan	
<b>Revision + Test Series (2 wks) 25 Jan - 06 Feb</b>		
30.	25Jan – 30 Jan	
31.	01Feb – 06 Feb	
<b>Pre-Board Exams (03 wks) 08 Feb – 25 Feb</b>		
32.	08 Feb -13 Feb	
33.	15 Feb – 20 Feb	
34.	22 Feb – 25 Feb	
<b>Final Board Examination in Mid-March</b>		



# **APSACS SSC Syllabus Pack**

**Class IX**

**Block 5 (Week 22-26)**

Session (2020-2021)  
**APSACS Syllabus Pack SSC IX**  
**Cold & Warm Region**  
**2020-2021**

**English**

Resources	Timeline for Session 2020 - 2021																
<p><b>Prescribed Textbook</b>                      English 9 (Punjab Textbook Board)</p> <p>English Grammar &amp; Composition for Class 9-10 (PTB)  <b>2018-2019</b></p> <p>Authors:                      Prof. B.A Chisty                      Prof. Fazl-ur-Rehman Butt                      Abdul Qadeer Hashmi</p> <p><b>Resources:</b>                      English Simple Grammar and Composition 9<sup>th</sup>–Class                      Author: Prof Zia-ur-Rahman Khan</p> <p>High School English Grammar &amp; Composition by                      Wren &amp; Martin. Multicolour Edition 2016                      Revised by Prasada Rao.</p> <p><b>Prescribed Notebook:</b>                      Single-lined notebook (large)/ Register</p>	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th style="width: 70%;">Weeks / Days</th> <th style="width: 30%;">Class IX</th> </tr> </thead> <tbody> <tr> <td><b>Time available</b></td> <td style="text-align: center;"><b>34 wks</b></td> </tr> <tr> <td><b>Study Time</b></td> <td style="text-align: center;"><b>26 wks</b></td> </tr> <tr> <td><b>School Assessments</b></td> <td style="text-align: center;"><b>03 wks</b></td> </tr> <tr> <td><b>Winter Break</b></td> <td style="text-align: center;"><b>10 days</b></td> </tr> <tr> <td><b>Revision &amp; Test Series</b></td> <td style="text-align: center;"><b>02 wks</b></td> </tr> <tr> <td><b>Pre-board Exams</b></td> <td style="text-align: center;"><b>03 Wks</b></td> </tr> <tr> <td colspan="2"><b>Federal Board Examination</b></td> </tr> </tbody> </table>	Weeks / Days	Class IX	<b>Time available</b>	<b>34 wks</b>	<b>Study Time</b>	<b>26 wks</b>	<b>School Assessments</b>	<b>03 wks</b>	<b>Winter Break</b>	<b>10 days</b>	<b>Revision &amp; Test Series</b>	<b>02 wks</b>	<b>Pre-board Exams</b>	<b>03 Wks</b>	<b>Federal Board Examination</b>	
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### Revised Reduced syllabus for class IX

**Ministry of Federal Education & Professional Training has announced & uploaded reduced syllabus / content again on FBISE official Website for SSC Annual Examination 2021 on 14 October 2020. Schools must ensure that the revised syllabus content is well-taught & students are prepared to appear for Board Exams.**

<b>Unit #</b>	<b>Title</b>	<b>Contents /Exercises to be covered</b>
<b>1</b>	The Saviour of Mankind	Reading Comprehension (Exercise-B) Grammar (Adjective, Conditional Type-I) Exercise A, B, C &D Homework: Vocabulary & Glossary (Exercise –A & B)
<b>2</b>	Patriotism	Reading Comprehension (Exercise-A) Grammar Modal Verbs (Exercise –A & B) Punctuation Exercise -C Homework: Vocabulary & Glossary (Exercise –A) Writing Skills (Exercise-E)
<b>3</b>	Media and its Impact	Grammar – Adjectives – Nouns- Adverbs – Pronouns Exercises – A, B, C, E, G Vocabulary Exercise B
<b>4</b>	Hazrat Asma (RA)	Reading Comprehension (Exercise-C) Grammar (Abstract Noun, Exercise-B& preposition of time, Exercise-E & F) Punctuation (Exercise –G) Homework: Glossary
<b>5</b>	Daffodils	Reading Comprehension (Exercise-A) Theme /Central idea of the Poem Figures of Speech (simile, metaphor, personification & imagery) Exercise-A, B, C Grammar (Collective Noun, exercise-A & Conjunctions, Exercise-D) Homework: Paraphrasing of poem
<b>6</b>	The Quaid’s Vision and Pakistan	Vocabulary & Glossary (Exercise A, B, C, D) Reading Comprehension (Exercise-A) Grammar (Adverb, Infinitive, Gerund & Conditional III) Exercises A, B, C, D& E
<b>7</b>	Sultan Ahmed Mosque	Vocabulary (Exercise A, B, C & D) Reading Comprehension (Exercise-A) Grammar: Position of Adverbs, Degrees of Comparison (Exercise A, B & C) Use of “Since & For” (Exercise D) page-80
<b>8</b>	Stopping by Woods on a Snowy Evening	Grammar – Adjective phrases – Adverb phrases Exercises – A, B

	(poem)	
10	Drug Addiction	Grammar – Relatives pronouns – Adjective clauses Exercises – A, C, D
11	Noise in the Environment	Grammar – Transition devices – Adverb clauses Independent and dependent clause – Subordinating conjunctions Exercises – B, C, D, F, G
12	Three Days to See	Vocabulary (Exercise A, B &C) Reading Comprehension (Exercise-A) Grammar (Conditional Type-II, Kind of sentences) Exercise A, B, C Identification Simple, Compound & Complex sentences (Exercise-D & E) Homework: Writing Skills Exercise-A

**GRAMMAR & COMPOSITION**

- i. **All parts of speech** (types & subtypes)
- ii. **Types of phrases, clauses & sentences** (Identification only)
- iii. **Conditional Sentences**
- iv. **Verbs** (Gerund, Participles & Infinitive)
- v. **Active Voice & Passive Voice** (Exercises page# 169-170 from English Grammar and Composition 9-10, PTB, Lahore, 1st Edition March, 2020)
- vi. **Tenses, Translation Exercises,**
  - a. Present Tenses (page 74 to 87)
  - b. Past Tenses (pages - 95 to 108)
  - c. Future Tenses (Pages117-131)
  - d. Correction Exercises pages # 164-168 (from English Grammar and Composition, PTB, Lahore, 1st Edition March, 2020)
- vii. **Informal Letters** (from English Grammar and Composition 9-10, PTB, Lahore, 1st Edition March, 2020)
  - a. Write a letter to your brother about the importance of science subjects
  - b. Write a letter to your father asking him about the health of your mother.
  - c. Write a letter to your friend condoling the death of his mother.
  - d. Write a letter to your sister congratulating her on her success in the exam.
- viii. **Punctuation exercises** from English Text Book (class 9th), PTB, Lahore
  - a. Unit # 2, page-19 Exercise-(c)
  - b. Unit # 4 Page # 43 Exercise-(g)
- ix. **Paragraph writing** (English Grammar and Composition 9-10, PTB, Lahore, 1st Edition March, 2020)
  - a. A Visit to a Museum
  - b. Fashion

**Subject: English– IX**

**Session (2020-2021)**

- c. An Industrial Exhibition
- d. How to keep our town clean?
- x. **Dialogue Writing** (English Grammar and Composition 9-10, PTB, Lahore, 1st Edition March, 2020)
  - a. between teacher and student
  - b. between two students regarding salat
  - c. between a tailor and a customer

**NOTE:**

1. Unit No 9. is entirely excluded.
2. Reading Comprehension Exercises of Unit No. 3, 8, 10 & 11 are only excluded.
3. All Review Exercises (I, II & III) in the English Text Book are entirely excluded.
4. The overall pattern and weightage of annual paper will remain the same, however, both objective and subjective paper will be from the reduced /selected contents.
5. All grammar- based content is supposed to be taken from the prescribed /recommended grammar book (English Grammar and Composition, PTB, Lahore, 1st Edition March, 20



**Block 5: English Week 22**

# of wks	Week Dates	Course Content Unit /Chapter/Topics
Week 22	27, 28 Nov	• AFL (Discussion on School Assessment)

**Syllabus Pack Block 5 (week 22)**

Week	Topics / Objectives	Study Guidelines	Resources
Week 22	AFL (Discussion on recurring errors in School Assessments)		

2020ء-2021ء

ہیسیکس سلیبس پیک ایس ایس سی I

کولڈ اینڈ وارم ریجن

2021-2020

اردو

ذرائع	دستیاب وقت	
	ہفتے / دن	جماعت نہم
ٹیکسٹ بک اردو برائے جماعت نہم ناشر: چوہدری غلام رسول اینڈ سنز لاہور اردو قواعد و انشاء 9-10 پنجاب ٹیکسٹ بک اردو نوٹ بک / رجسٹر	34	کل ہفتے
	26	تعلیمی مدت
	03	اسسٹنٹ کے ہفتے
	10 دن	تعطیلات برائے موسم سرما
	2 ہفتے	دہرائی + ٹیسٹ سیریز
	03	پری بورڈ امتحانات
	فیڈرل بورڈ امتحان	

☆ ایف بی آئی ایس ای (FBISE) کے تحت ایس ایس سی امتحانات 2021ء کے لئے کم کیا گیا نصاب:

وفاقی وزارتِ تعلیم نے 14 اکتوبر 2020ء کو FBISE کی آفیشل ویب سائٹ پر، ایس ایس سی کے سالانہ بورڈ امتحانات کے لئے کم کیا گیا نصاب / سلیبس اپ لوڈ کیا ہے۔ لہذا اسکو لڑاس بات کو یقینی بنائیں کہ درج ذیل نصابی مواد طلبا کو اچھی طرح پڑھایا جائے تاکہ بورڈ کے امتحانات کے لئے طلبا کی تیاری مکمل ہو سکے۔

## منتخب نصاب اُردو لازمی

شامل نصاب عنوانات برائے جماعت نہم

1. ہجرت نبوی ﷺ (مشق مکمل)
  2. کاہلی
  3. آرام و سکون
  4. امتحان
  5. قدرِ ایاز
  6. حمد (نظم)
  7. نعت (نظم)
  8. پیوستہ رہ شجر سے امید بہار رکھ
  9. غزل، اسد اللہ خان غالب
  10. قواعد و انشاء (خطوط نویسی، مکالمہ نویسی، روداد نویسی)
- بمطابق کتاب اُردو قواعد و انشاء نہم و دہم پنجاب ٹیکسٹ بک بورڈ لاہور۔
- نوٹ: مصنفین اور شعرا کے تعارف میں سے کوئی سوال نہیں بنایا جائے گا۔

2021ء-2020ء

مضمون: اردو نہم

بلاک 5 اردو بائیسواں ہفتہ

نصابی مواد موضوع: سبق / نظم / غزل کا نام	ہفتے / دن	ہفتے
AFL	۲۷ نومبر ۲۸ نومبر	بائیسواں ہفتہ

سلیبس پیک بلاک 5 (بائیسواں ہفتہ)

ذرائع	طریقہ تدریس	موضوعات / مقاصد	ہفتہ نمبر
	<u>Days</u> <u>AFL (ASSESSMENT FOR LEARNING)</u> Syllabus Implementation Guide for Teachers	AFL document میں موجود	بائیسواں ہفتہ

**APSACS Syllabus Pack SSC IX  
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2020-2021**

**Mathematics**

Resources	Available Time															
<p><b>Prescribed Textbook</b> Mathematics 9 (Science Group) by Caravan Book House, Lahore</p> <p>Authors: Dr. Karamat H. Dar Prof. Irfan-ul-Haq</p> <p><b>Resources:</b> Mathematics 9 (Science Group) by Caravan Book House, Lahore.</p> <p><b>Prescribed Notebook:</b> Maths Single Line Notebook (Large)/Register</p>	<table border="1"> <thead> <tr> <th data-bbox="1199 605 1520 675">Weeks / Days</th> <th data-bbox="1524 605 1707 675">Class X</th> </tr> </thead> <tbody> <tr> <td data-bbox="1199 678 1520 743">Time available</td> <td data-bbox="1524 678 1707 743">34 wks</td> </tr> <tr> <td data-bbox="1199 747 1520 816">Study Time</td> <td data-bbox="1524 747 1707 816">27+ wks</td> </tr> <tr> <td data-bbox="1199 820 1520 922">School Assessments</td> <td data-bbox="1524 820 1707 922">02 weeks &amp; 04 days</td> </tr> <tr> <td data-bbox="1199 925 1520 995">Winter Break</td> <td data-bbox="1524 925 1707 995">10 days</td> </tr> <tr> <td data-bbox="1199 998 1520 1105">Revision &amp; Test Series</td> <td data-bbox="1524 998 1707 1105">02 wks</td> </tr> <tr> <td colspan="2" data-bbox="1199 1109 1707 1190">Federal Board Examination</td> </tr> </tbody> </table>		Weeks / Days	Class X	Time available	34 wks	Study Time	27+ wks	School Assessments	02 weeks & 04 days	Winter Break	10 days	Revision & Test Series	02 wks	Federal Board Examination	
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School Assessments	02 weeks & 04 days															
Winter Break	10 days															
Revision & Test Series	02 wks															
Federal Board Examination																

**REVIEWED SYLLABUS MATHEMATICS SSC-I**  
**(Science Group)**

<b>Unit 1</b>	<b>Matrices and Determinants</b>
<b>Exercise 1.1</b>	<b>Q1; Q2; Q3</b>
<b>Exercise 1.2</b>	<b>Q1; Q2; Q3; Q5; Q6</b>
<b>Exercise 1.3</b>	<b>Q1; Q2; Q5(i, v, vi, ix, x); Q6; Q7; Q8(i, ii, iii, iv)</b>
<b>Exercise 1.4</b>	<b>Q1; Q2; Q3; Q5; Q6</b>
<b>Exercise 1.5</b>	<b>Q1(i, ii); Q2(i, ii); Q3(iii, iv); Q4</b>
<b>Exercise 1.6</b>	<b>Q1(i, iii, v, vii); Q2; Q4</b>
<b>Review Ex 1</b>	<b>Q1</b>
<b>Unit 2</b>	<b>Real and Complex Numbers</b>
<b>Exercise 2.1</b>	<b>Q3; Q4(i, ii, iii); Q6(i, ii)</b>
<b>Exercise 2.2</b>	<b>Q1; Q3</b>
<b>Exercise 2.3</b>	<b>Q1(i, ii); Q3(i, ii)</b>
<b>Exercise 2.4</b>	<b>Q1(i, iv); Q2; Q3(i, ii)</b>
<b>Exercise 2.5</b>	<b>Q1(i, ii, iv); Q2(i, ii, iii); Q3(iv, v); Q4</b>
<b>Exercise 2.6</b>	<b>Q1; Q2(ii, iv); Q3(ii, iv); Q4(i, iv, v); Q5(ii, iii); Q6(i, iii, iv, v); Q7(i, ii)</b>
<b>Review Ex 2</b>	<b>Q1; Q2; Q5; Q7</b>
<b>Unit 3</b>	<b>Logarithms</b>

Exercise 3.1	Q1(i, ii, iv, vi); Q2(iii, iv)
Exercise 3.2	Q1(i, iii); Q3; Q4(ii, iv); Q5
Exercise 3.3	Q1(iv, v, vi); Q2; Q3(iii, iv); Q4
Exercise 3.4	Q1(i, iii, iv, vi); Q2; Q5
Review Ex 3	Q1; Q2
Unit 4	Algebraic Expressions and Algebraic Formulas
Exercise 4.1	Q1; Q2; Q3(iii, iv, v, vii, viii); Q5(ii, iv, vi); Q6(ii, iii, iv, v)
Exercise 4.2	Q1; Q2; Q4; Q6; Q8; Q10; Q13; Q15(i, ii, iii)
Exercise 4.3	Q1(iii, iv); Q2(ii, iii); Q3(i, ii); Q4(iii, v)
Exercise 4.4	Q1(iii, iv, vii); Q2(i, ii); Q3(i); Q4(i, ii); Q5(ii)
Review Ex 4	Q1; Q2
Unit 5	Factorization
Exercise 5.1	Q1(i, v, vi); Q2(iii, iv); Q3(i, iii); Q4(ii, iv); Q5(i, ii, iii)
Exercise 5.2	Q1(i, iv, v); Q2(i, iii); Q3(ii, v, viii); Q4(i, iii, v); Q5(i, ii); Q6(i, ii)
Exercise 5.3	Q1(i, iii); Q2(i); Q3(i); Q5; Q7; Q9
Review Ex 5	Q1; Q2
Unit 6	Algebraic Manipulation
Exercise 6.1	Q1; Q2(i, ii, iii); Q3(i, iii); Q4; Q5(ii, iii); Q6; Q8; Q9
Exercise 6.2	Q 1; Q2; Q4; Q6; Q9; Q11; Q13
Exercise 6.3	Q1(i, iv, vi, vii); Q2(i, iv, v); Q3(i); Q4(i)

<b>Review Ex 6</b>	<b>Q1; Q8</b>
<b>Unit 7</b>	<b>Linear Equations and Inequalities</b>
<b>Exercise 7.1</b>	<b>Q1(i, iii, v, vii, ix); Q2(i, ii, v, viii)</b>
<b>Exercise 7.2</b>	<b>Q1; Q2(ii, iv, v, vii)</b>
<b>Exercise 7.3</b>	<b>Q1(i, ii, iv, vii); Q2(i, ii, iii, viii)</b>
<b>Review Ex 7</b>	<b>Q1; Q2</b>
<b>Unit 8</b>	<b>Linear Graphs and their Applications</b>
<b>Exercise 8.1</b>	<b>Q1; Q2(i, ii, iii, iv, v, vi, vii, xiii, xiv); Q5</b>
<b>Exercise 8.2</b>	<b>Q3(a, b, c); Q4</b>
<b>Exercise 8.3</b>	<b>Q1; Q2; Q3</b>
<b>Review Ex 8</b>	<b>Q1; Q2</b>
<b>Unit 9</b>	<b>Introduction to Coordinate Geometry</b>
<b>Exercise 9.1</b>	<b>Q1(a, d, e); Q2(i, ii)</b>
<b>Exercise 9.2</b>	<b>Q1; Q2; Q3; Q4; Q5; Q6; Q9</b>
<b>Exercise 9.3</b>	<b>Q1(a, c, f); Q2; Q3; Q5</b>
<b>Review Ex 9</b>	<b>Q1; Q2</b>
<b>Unit 10</b>	<b>Congruent Triangles</b>
<b>Exercise 10.1</b>	<b>Q1</b>



<b>Exercise 10.3</b>	<b>Q1</b>
<b>Exercise 10.4</b>	<b>Q1; Q2</b>
<b>Theorems</b>	<b>10.1.1; 10.1.2</b>
<b>Review Ex 10</b>	<b>Q1; Q3; Q4; Q5</b>
<b>Unit 11</b>	<b>Parallelograms and Triangles</b>
<b>Exercise 11.1</b>	<b>Q1; Q2</b>
<b>Exercise 11.4</b>	<b>Q1</b>
<b>Theorems</b>	<b>11.1.2; 11.1.3; 11.1.5</b>
<b>Review Ex 11</b>	<b>Q1; Q2; Q3; Q4; Q5</b>
<b>Unit 12</b>	<b>Line Bisectors and Angle Bisectors</b>
<b>Theorems</b>	<b>12.1.1; 12.1.3; 12.1.4</b>
<b>Review Ex 12</b>	<b>Q1; Q2; Q4; Q5; Q6</b>
<b>Unit 13</b>	<b>Sides and Angles of a Triangle</b>
<b>Exercise 13.1</b>	<b>Q1; Q3</b>
<b>Exercise 13.2</b>	<b>Q1; Q2; Q3</b>
<b>Theorems</b>	<b>13.1.1; 13.1,3; 13.1.4</b>
<b>Review Ex 13</b>	<b>Q1</b>
<b>Unit 14</b>	<b>Ratio and Proportion</b>
<b>Exercise 14.1</b>	<b>Q1</b>

Exercise 14.2	Q1; Q2
Theorems	14.1.3
Review Ex 14	Q1; Q4; Q5; Q6
Unit 15	Pythagoras Theorem
Exercise 15	Q1; Q3; Q4; Q6; Q7; Q8
Review Ex 15	Q1: Q2
Theorems	15.1.1
Unit 16	Theorems Related with Area
Exercise 16.1	Q2
Theorems	16.1.1
Review Ex 16	Q1; Q2
Unit 17	Practical Geometry-Triangles
Exercise 17.1	Q1(i, iv, v); Q2(i, ii); Q3; Q4(i, ii)
Exercise 17.2	Q1(i, iii); Q2(i, iii); Q3(i, iii); Q4(i, ii)
Exercise 17.3	Q1; Q3
Exercise 17.4	Q1; Q3
Review Ex 17	Q1; Q2

**NOTE:**

All Class work will be given for revision as H.W.

The MCQ's Portion of the annual paper will be taken from MCQ's exercise at the end of the chapters: so MCQ's will be done in class by class teacher.

**Block 5: Mathematics Week 22**

<b>Wks</b>	<b>Time line</b>	<b>Course Content</b> Unit /Chapter/Topics
<b>Week 22</b>	Nov 27 – Nov 28	<b>AFL (Discussion on Assessments )</b>

**Syllabus Pack Block 5 (week 22)**

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
<b>Week 22</b>	AFL: Discussion and Practice of topics identified for recurring errors in assessments. Teacher to ensure the discussion/practice efforts are aligned with the content mentioned in reduced syllabus.		

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Cold & Warm Region  
2020-2021**

**Physics**

Resources	Available Time	
<p><b>Prescribed Textbook</b> Physics 9, by Caravan Book House, Lahore</p> <p>Authors: Prof. Tahir Hassan Prof. Muhammad Naeem Anwar</p> <p><b>Prescribed Notebook:</b></p> <ul style="list-style-type: none"> <li>• Single Line Notebook (Large)/Register</li> <li>• Loose Sheets</li> </ul>	<b>Weeks / Days</b>	<b>Class IX</b>
	<b>Total Weeks available</b>	<b>34 wks</b>
	<b>Study Time</b>	<b>26 wks</b>
	<b>School Assessments</b>	<b>03 wks</b>
	<b>Winter Break</b>	<b>10 days</b>
	<b>Revision &amp; Test Series</b>	<b>02 wks</b>
	<b>Pre-Board Exams</b>	<b>03 Wks</b>
	<b>Federal Board Examination</b>	

# PHYSICS SSC-I

## NOTE:

- All mini exercises, quick quiz and side information are excluded.
- Only topic based related MCQs, Short and Long Questions and numerical are included.

## Unit 1 Physical Quantities and Measurements

- 1.2 Physical quantities
- 1.3 International system of units
- 1.4 Prefixes
- 1.5 Scientific Notation
- 1.6 Measuring Instruments (Vernier callipers, Screw gauge, Stop Watch only) (Tables: 1.2, 1.3, 1.4 included)

## Unit 2 Kinematics

All theory topics 2.1- 2.7 and examples 2.1-2.7, 2.10 are included.

## Unit 3 Dynamics

- 3.1: Force, Inertia and Momentum
- 3.2: Newton's Laws of Motion (1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup>, mass and weight, Force and Momentum, Law of Conservation of momentum only)
- 3.3: Friction (Rolling Friction, Advantages / disadvantages of Friction, methods to reduce friction only)
- 3.4: Uniform circular motion (Centripetal force and centrifugal force only)

## Unit 4 Turning Effects of Forces

All Theory Topics 4.1- 4.8 are included.

## Unit 5 Gravitation

- 5.1: The force of gravitation
- 5.2: Mass of Earth
- 5.3: Variation of g with Altitude

## Unit 6 WORK AND ENERGY

Theory Topics (6.1-6.4), 6.8- efficiency, 6.9- power

## Unit 7 Properties of Matter

Theory Topics:

7.2 Density, 7.3, Pressure,  
7.5, Pressure in Liquid {Pascal's Law, Application of Pascal's Law (Hydraulic Press Only)}  
7.6 Archimede's Principle,  
7.7 Principle of Floatation  
7.8 Elasticity, 7.9 Hook's Law

**Unit8 Thermal Properties**

8.3, Specific heat capacity, importance of large specific Heat capacity of water, heat capacity 8.8: Thermal expansion (linear and volume expansion) consequences and applications of thermal expansion only)  
(Table: 8.1, 8.3, 8.4 included)

**Block 5: Physics Week 22**

<b>Wks</b>	<b>Time line</b>	<b>Course Content</b> Unit /Chapter/Topics
<b>Week 22</b>	Nov 27 – Nov 28	<b>AFL ( Discussion on Assessments )</b>

**Syllabus Pack Block 5 (week 22)**

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
<b>Week 22</b>	AFL: Discussion and Practice of topics identified for recurring errors in assessments. Teacher to ensure the discussion/practice efforts are aligned with the content mentioned in reduced syllabus.		

**APSACS Syllabus Pack SSC IX  
Cold & Warm Region  
2020-2021**

**Chemistry**

Resources	Available Time	
<b>Prescribed Textbook</b> <ul style="list-style-type: none"> <li>• Textbook of Chemistry Grade 9 National Book Foundation As Federal Textbook Board- Islamabad</li> <li>• Practical Notebook Chemistry Class 9 &amp; 10</li> </ul> <b>Prescribed Notebook:</b> Single-lined notebook (large)/Register	<b>Weeks / Days</b>	<b>Class IX</b>
	<b>Total available</b>	<b>34wks</b>
	<b>Study Time</b>	<b>26wks</b>
	<b>School Assessments</b>	<b>03 wks</b>
	<b>Syllabus completion + Revision + Test Series</b>	<b>02 wks</b>
	<b>Pre board Exams</b>	<b>03 wks</b>



**Reduced SYLLABUS**  
**CHEMISTRY SSC-I**

**NOTE:** Side Boxes like (Society, Technology and Science, Do you know, Science, Tit Bits are excluded from the syllabus, it is obvious that the topic which are excluded questions relevant in the exercises are omitted.

**Chapter: 1 Fundamentals of Chemistry**

Basic definitions, Matter, substance, Mixture (types), Elements, compound, Atomic number, Mass number, Relative mass unit, Empirical formula and Molecular formula, Types of molecular formula, Molecular mass calculation, concept of mole, Avogadro's number, chemical calculation, mole-mass calculation (1.5), Mole-particles calculation Example (1.6, 1.7).

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

**Chapter: 2 Structure of Atom**

Rutherford atomic model (experiment, Defects), Bohr's atomic theory, electronic configuration

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

**Chapter: 3 Periodic Table and Periodicity of properties**

Periods and groups of element, s and p blocks in periodic table, Periodicity of properties, Shielding effect and trends, atomic size and trends, Ionization energy and trends, Electron affinity and trends, electronegativity and trends.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

**Chapter: 4 Structure of molecule**

Chemical Bond, Types of bond, ionic bond, covalent bond, intermolecular forces.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

**Chapter: 5 Physical state of Matter**

Boyle's Law, Charles Law, Liquid state, evaporation, vapor pressure, boiling point, effect of external pressure on boiling point, sublimation, types of solids (Amorphous and crystalline).

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

**Chapter: 6 Solution**

**Subject: Chemistry– IX****Session (2020-2021)**

Saturated, Unsaturated, Super Saturated Solution, Concentration Units (Percentage, Molarity, Solubility, Effect of Temperature on Solubility, Comparison of Solution, Suspension and Colloids (Only table is included).

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

15

**Chapter: 7 Electrochemistry**

Oxidation, Reduction, oxidation reduction in term of loss or gain of electrons, oxidation state and rules for assigning oxidation state and oxidation number, oxidizing and reducing agent, Electrochemical cell, nature of electrochemical process, concept of electrolyte, electrolytic cell, use of electrolytic cell, galvanic cell (Daniel cell), Reaction in Daniel cell, Zinc electroplating, chromium electroplating, corrosion and its prevention, rusting of iron, corrosion of Aluminum, cathode protection.

**Note: Related self-assessments, review exercise and think tank questions of Abovementioned topics are included. Side boxes and Society, science and technology are not included.**

**Chapter: 8 Chemical Reactivity**

Metal, electropositive character, comparison of reactivity of Alkali and alkaline Earth metals, inertness of Noble metals, importance of silver, Gold, Platinum, Non-metals, Electro negativity character, comparison of reactivity of halogen.

**Note: Topic related self-assessments, review exercise and think tank questions are included. Side boxes and Society, science and technology are not included.**

**CHEMISTRY – SSC I**  
**LIST OF PRACTICALS**

**Physical States of Matter**

Determine the Melting Point of Naphthalene. Major

Determine the Boiling Point of Ethyl Alcohol. Major

Separate naphthalene from the given mixture of sand and naphthalene by sublimation. Major

**Solutions**

Prepare 100 cm<sup>3</sup> of 0.1M NaOH solution. Major

Prepare 250 cm<sup>3</sup> of 0.1M HCl solution. Major

Prepare 100 cm<sup>3</sup> of 0.1M NaOH solution from the given 1M solution. Major

Prepare 100 cm<sup>3</sup> of 0.01M HCl solution from the given 0.1M solution. Major

Prepare 100 cm<sup>3</sup> of 0.01M oxalic acid solution from the given 0.1M solution. Major

Prepare pure Copper Sulphate crystals from the given impure sample. Minor

Demonstrate that temperature affects solubility. Minor 7. Electrochemistry

**Electrochemistry**

Demonstrate the conductivity of different given solutions. Minor

**Chemical Reactivity**

Demonstrate that an element and a compound can react to form a different element and a different compound. Minor

Demonstrate that some chemical reactions absorb energy. Minor

**Block 5: Chemistry Week 22**

# of Wk	Time line	Course Content Unit /Chapter/Topics
Week 22	Nov 27-Nov 28	AFL

**Syllabus Pack Block 5 (week 22)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 22 (02 days)	<b>AFL</b>  <u>Objectives:</u> <b>Students will be able to:</b> <ul style="list-style-type: none"> <li>identify their mistakes in papers and do corrections in their notebooks as per requirement.</li> </ul>	<u>Explanation and Discussion:</u> <ul style="list-style-type: none"> <li>AFL to be carried out.</li> <li>Question of the Papers and students' answers to be discussed and corrections to be done by students in their Notebooks as per teacher's instructions.</li> </ul>	<ul style="list-style-type: none"> <li>Textbook of Chemistry Grade 9 National Book Foundation As Federal Textbook Board Islamabad</li> <li>Board, Marker</li> </ul>

**APSACS Syllabus Pack SSC IX  
Cold & Warm Region  
2020-2021**

**Biology**

Resources	Available Time	
<b>Prescribed Textbook:</b> <ul style="list-style-type: none"> <li>• <b>Biology 9</b> PLD Publishers, Lahore</li> <li>• <b>Practical Notebook Biology Class 9 &amp; 10</b></li> </ul> <b>Prescribed Notebook:</b> <ul style="list-style-type: none"> <li>• <b>Single-lined notebook (large)/Register</b></li> <li>• <b>Practical Notebook</b></li> </ul>	<b>Weeks / Days</b>	<b>Class IX</b>
	<b>Total available</b>	<b>34 wks</b>
	<b>Study Time</b>	<b>26 wks</b>
	<b>School Assessments</b>	<b>03 wks</b>
	<b>Syllabus completion + Revision + Test Series</b>	<b>02 wks</b>
	<b>Pre Board Exams</b>	<b>03 wks</b>
	<b>Federal Board Examination</b>	

**BIOLOGY SSC-I  
REDUCED SYLLABUS**

**BIOLOGY SSC-I****NOTE:**

1. Only topic based relevant MCQs, Short and Long Questions are included.
2. All information in side boxes is excluded.

Ch. #	Chapter Name	Topics Included
1	Introduction to Biology	Introduction to Biology (2-3) Branches of Biology The Levels Of Organization (7-13)
2	Solving a Biological Problem	Biological Method (20-23) Theory, Law and Principle (26, 27) Data Organization And Data Analysis (27-28)
3	Biodiversity	Biodiversity (31) Importance of Biodiversity (32) Classification- Aims and Principles (33-35) Aims of classification Basis of classification Taxonomic hierarchy Two kingdom classification system (36-38) Three kingdom classification system Five kingdom classification system The five kingdoms Binomial Nomenclature (39-40) Deforestation and Overhunting (43-44) Endangered Species In Pakistan (45-46)

**Subject: Biology– IX****Session (2020-2021)**

4	Cells and Tissues	Cellular Structures and Function (57-65) Difference Between Eukaryotic and Prokaryotic Cells (66) Passage of Molecules into and Out of Cells Diffusion (69) Osmosis (70) (Water Balance Problems, Osmosis and Guard Cells, Application of Knowledge About Semi Permeable Membranes Excluded) Active Transport (73) Animal Tissues (74) Epithelial Tissues (Types Excluded) (75) Connective Tissues (75) Muscle Tissues (76-77) Nervous Tissue (77) Plant Tissues (78-82) Simple Tissues Meristematic Tissues (Types Excluded) Permanent Tissues (Names of Types Only) Compound Tissues (Names of Types Only)
5	Cell Cycle	Cell Cycle (87-88) Mitosis and Its Phases (89-91) Meiosis and Its Phases (95-100) Comparison Between Mitosis and Meiosis (101)
6	Enzymes	Enzyme Introduction (107-108) Characteristics of Enzymes (108-109) Factors Affecting Rate of Enzyme Action (109- 111) Mechanism Of Enzyme Action (111-112)
7	Bioenergetics	Oxidation and Reduction Reactions (118) ATP- The Cell's Energy Currency (119-120) Photosynthesis (120) Mechanism of Photosynthesis (121-122) Respiration (130) Aerobic and Anaerobic Respiration (130-131) (Importance of Fermentation excluded) Mechanism of Respiration (132)
8	Nutrition	Components of Human Food (143) Minerals (Table 8.2 excluded) (144) Role of Calcium and Iron (145) Effects of Water and Dietary Fiber (150) Digestion In Humans (157-165) (Disorders Excluded)

9	Transport	Transpiration (173) (Opening and Closing of Stomata Excluded, Factors Affecting the Rate of Transpiration Excluded) Significance of Transpiration (176) Transport in Human (184) Blood (185-187) (Table 9.2 Excluded) Human Heart (192-193) Pulmonary and systemic Circulation (193) Heartbeat (194-195) Heart Rate and Pulse Rate (195-196) Blood Vessels (197-198) (Table 9.1 Included)
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### BIOLOGY – SSC List of Practical

#### 1. Introduction to Biology

1. Study of different types of bacteria with the help of prepared slides of *Amoeba*, *Paramecium*, *Volvox* from prepared slides/ fresh culture/charts

#### 4. Cells and Tissues

3. Examination under the microscope an animal cell (e.g. from frog's blood) and a plant cell (e.g. from onion epidermis), using an appropriate temporary staining technique, such as iodine or methylene blue

#### 5. Cell Cycle

7. Observation of various stages of mitosis and meiosis by slides, model and charts

#### 7. Bioenergetics

10. Demonstration of the process of photosynthesis using an aquatic plant, like *Hydrilla*

#### 8. Nutrition

15. Food tests: Benedict's test for reducing sugar, iodine test for starch, spot test and emulsion test for fat, and Biuret test for protein in solution

16. Microscopic examination of a transverse section of the small intestine to show the villi

#### 9. Transport

19. Investigation of the rate of water loss at the two surfaces of a leaf by a simple experiment using cobalt chloride paper

20. Investigation of transpiration in potted plant under a bell jar

22. Identification of red and white blood cells under the light microscope on prepared slides and in diagrams and photomicrographs

23. Investigation of the effect of physical activity on pulse rate



**Block 5: Biology Week 22**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 22	Nov 27-Nov 28	<ul style="list-style-type: none"> <li>AFL</li> </ul>

**Syllabus Pack Block 5 (week 22)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 22 (02 days)	<b>AFL</b> <u>Objectives</u> <b>Students will be able to</b> <ul style="list-style-type: none"> <li>identify their mistakes in papers and do corrections in their attempt of solutions</li> </ul>	<u>Explanation and Discussion:</u> <ul style="list-style-type: none"> <li>AFL to be carried out.</li> <li>Question of the Papers and students' answers to be discussed and corrections to be done by students in their Notebooks as per teacher's instructions.</li> </ul>	<ul style="list-style-type: none"> <li>Biology 9 PLD Publishers, Lahore</li> <li>Board</li> <li>Marker</li> <li>Solved papers by students</li> </ul>

**APSACS Syllabus Pack SSC IX  
Cold & Warm Region  
2020-2021**

**Computer Science**

Resources	Available Time														
<p><b>Prescribed Textbook</b></p> <ul style="list-style-type: none"> <li>Text book of Computer Science Grade-9 National Book Foundation as Federal Textbook Board Islamabad.</li> </ul> <p>Authors: Muhammad Sajjad Haider MS (Computer Science), , USA, BE(Mechanical Engineering), Korea Muhammad Khalid MS (Computer Science ), B.Ed , University of Peshawar ,Pakistan</p> <p><b>Resources:</b></p> <ul style="list-style-type: none"> <li>Text book of Computer Science Grade-9 National Book Foundation as Federal Textbook Board Islamabad.</li> <li>Star Computer Practical Notebook for Class IX</li> </ul> <p><b>Prescribed Notebook:</b></p> <ul style="list-style-type: none"> <li>Single-lined notebook (large)</li> </ul>	<table border="1"> <thead> <tr> <th style="text-align: center;">Weeks / Days</th> <th style="text-align: center;">Class IX</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>Total available</b></td> <td style="text-align: center;"><b>34 wks</b></td> </tr> <tr> <td style="text-align: center;"><b>Study Time</b></td> <td style="text-align: center;"><b>26 wks</b></td> </tr> <tr> <td style="text-align: center;"><b>School Assessments</b></td> <td style="text-align: center;"><b>03 wks</b></td> </tr> <tr> <td style="text-align: center;"><b>Revision + Test Series</b></td> <td style="text-align: center;"><b>02 wks</b></td> </tr> <tr> <td style="text-align: center;"><b>Pre Board Exam</b></td> <td style="text-align: center;"><b>03 wks</b></td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Federal Board Examination</b></td> </tr> </tbody> </table>	Weeks / Days	Class IX	<b>Total available</b>	<b>34 wks</b>	<b>Study Time</b>	<b>26 wks</b>	<b>School Assessments</b>	<b>03 wks</b>	<b>Revision + Test Series</b>	<b>02 wks</b>	<b>Pre Board Exam</b>	<b>03 wks</b>	<b>Federal Board Examination</b>	
Weeks / Days	Class IX														
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<b>Pre Board Exam</b>	<b>03 wks</b>														
<b>Federal Board Examination</b>															

**List of Topics for Theory :**

**Unit 01:** Fundamentals of Computer Science (complete chapter)

**Unit 02:** Fundamentals of Operating System (reduced)

➤ 2.1 Introduction (Included)

➤ 2.2 Operating System (Included)

**Unit 03 :** Skipped: whole chapter in theory, topic will be covered in practicals

**Unit 04 :** Data Communication (complete chapter)

**Unit 05 :** Computer Network (complete chapter)

**Unit 06 :** Computer Security and Ethics (complete chapter)

**Block 5: Computer Science Week 22**

<b>Wks</b>	<b>Time line</b>	<b>Course Content</b> Unit /Chapter/Topics
<b>Week 22</b>	Nov 27- Nov 28 (AFL)	<b>(Discussion on Assessments)</b>

**Syllabus Pack Block 5 (week 22)**

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
<b>Week 22</b> (AFL)		<b>(Discussion on Assessments)</b>	

پبلیک سلیبس پیک ایس ایس سی IX

کولڈ + وارم ریجن

2020ء - 2021ء

اسلامیات

دورانیہ		ذرائع
		<u>درسی کتاب:</u>
		اسلامیات لازمی (9-10) پنجاب ٹیکسٹ بک بورڈ لاہور
34	کل ہفتے	رجسٹر: 01
26	تدریسی ہفتے	
03	اسکول اسمنٹس	
02	دہرائی + ٹیسٹ سیریز	
03	پری بورڈ	
بورڈ امتحانات		

☆ ایف بی آئی ایس ای (FBISE) کے تحت ایس ایس سی امتحانات 2021ء کے لئے کم کیا گیا نصاب:

وفاقی وزارتِ تعلیم نے 14 اکتوبر 2020ء کو FBISE کی آفیشل ویب سائٹ پر، ایس ایس سی کے سالانہ بورڈ امتحانات کے لئے کم کیا گیا نصاب / سلیبس اپ لوڈ کیا ہے۔ لہذا اسکولز اس بات کو یقینی بنائیں کہ درج ذیل نصابی مواد طلباء کو اچھی طرح پڑھایا جائے تاکہ بورڈ کے امتحانات کے لئے طلباء کی تیاری مکمل ہو سکے۔

الجزء الثاني	الجزء الاول
من هدى الحديث	من هدى القرآن الكريم
1- ترجمه حديث نمبر 10 تا 10`	آيات (1 تا 48) (صفحہ نمبر 7 تا 17)
2- تشریح و عملی زندگی سے تعلق حدیث 1 تا 5	<ul style="list-style-type: none"> <li>• درس الاول (ا)</li> <li>• درس الاول (ب)</li> <li>• درس الاول (ج)</li> <li>• درس الثاني (ا)</li> <li>• درس الثاني (ب)</li> <li>• درس الثاني (ج)</li> </ul>
الجزء الثالث	(بامحاوره ترجمه، الكلمات والترکیب بشمول التمارین مکمل)
موضوعاتی مطالعہ	
1- قرآن مجید (تعارف، حفاظت اور فضائل)	
2- اللہ تعالیٰ اور اس کے رسول حضرت محمد خاتم النبیین ﷺ کی محبت اور اطاعت	
3- علم کی فرضیت اور فضیلت	
4- زکوٰۃ (فرضیت، اہمیت اور مصارف)	
نوٹ : مذکورہ بالا تینوں موضوعات کے تمام مشتقی سوالات شامل ہیں۔	

نصابی مواد باب / سبق / موضوعات	ٹائم لائن	ہفتہ نمبر
اے ایف ایل (اسسٹنس پر تبادلہ خیال)	27 نومبر – 28 نومبر	بائیسواں ہفتہ

سلیبس پیک بلاک-5 (بائیسواں ہفتہ)

ذرائع	تدریسی ہدایات	موضوعات / مقاصد	ہفتہ نمبر
			بائیسواں ہفتہ
<b>Days</b> <b><u>AFL (ASSESSMENT FOR LEARNING)</u></b> Syllabus Implementation Guide for Teachers میں موجود AFL document ملاحظہ کریں۔			

**APSACS Syllabus Pack SSC IX  
Cold & Warm Region  
2020-2021**

**Pakistan Studies**

Resources	Available Time	
<p><b>Prescribed Textbooks:</b> Pakistan Studies 9 (G. F.H. Publishers Lahore)</p> <p><b>Resources:</b> Pakistan Studies For Class X (Punjab Textbook Board, Lahore)</p> <p><b>Notebooks Prescribed:</b> Single Lined Notebook (large):1</p>	<b>Weeks / Days</b>	<b>Class IX</b>
	<b>Total available</b>	<b>34 wks</b>
	<b>Study Time</b>	<b>26+ wks</b>
	<b>School Assessments</b>	<b>03 wks</b>
	<b>Winter Break</b>	<b>10 days</b>
	<b>Revision + Test Series</b>	<b>02 wks</b>
	<b>Pre Board Exams</b>	<b>03 wks</b>
	<b>Federal Board Examination</b>	



**PAKISTAN STUDIES SSC-I**  
**Reduced Syllabus by FBISE**

**CHAPTER 1 IDEOLOGICAL BASIS OF PAKISTAN**

**TOPICS:** Basis of the Ideology of Pakistan, Two Nation Theory: Origins, Evolution and explication, The ideology of Pakistan and Quaid-i-Azam

**CLASS WORK:** Long questions: 5-6-8

**HOMEWORK:** Short questions: 1-2-3-4-5-7-9-13

**CHAPTER 2 MAKING OF PAKISTAN**

**Topics:** Pakistan Resolution 1940, Background of Pakistan resolution, Quaid-e-Azam presidential address, text of the resolution, reaction to the resolution, Jinnah-Gandhi talks 1944, Cabinet mission plan 1946, talks with different political leaders, proposal of cabinet mission, reaction of political parties to cabinet mission. Interim government 1946-47, 3rd June 1947 plan, Quaid-e-Azam, Role in making of Pakistan, services rendered by Quaid-e-Azam.

**CLASS WORK:** Long question 5-6-8-10

**HOMEWORK:** Short questions 3-4-5-6-9-11-12-13-15

**CHAPTER 3 LAND AND ENVIRONMENT**

**Topics:** Location of Pakistan, regions of Pakistan with reference to temperature, climatic regions of Pakistan, plain region, major environmental hazards and their remedies, environmental pollution and its types, threats to water, soil, vegetation and wildlife.

**CLASS WORK:** Long questions: 5-8-11-12-14-15-16

**HOMEWORK:** Short questions 1-2-3-5-7-11-12

**CHAPTER 4 HISTORY OF PAKISTAN (Part 1)**

**Topics:** Early problems of Pakistan, Quaid-i-Azam, role as first governor general of Pakistan, Pakistan objective resolution 1949, Muslim family laws ordinance 1961, Indo-Pak war 1965, events of war, naval war, ceasefire, effects of war, unity and solidarity among Pakistani people. Economic development: the second five years plan (1960-65), the third five years plan (1965-70). Separation of East Pakistan and emergence of Bangladesh, causes of separation of East Pakistan.

**CLASS WORK:** Long question: 5-6-8-10-11

**HOMEWORK:** Short question: 3-4-5-6-7-9-13-14-15

**NOTE:** All MCQs of all chapters given in exercise are included in syllabus

Subject: Pakistan Studies IX

Session (2020-2021)

*Note: The course content of Pakistan Studies was completed in Study Pack 4 now revision of chapter 1 and Chapter 2 will continue in Study Pack 5 keeping the reduced syllabus content in consideration.*

## Block 5: Pakistan Studies Week 22

# of wks	Time line	Course Content Unit /Chapter name
Week 22	Nov 27, 28 (02 days)	<ul style="list-style-type: none"><li>• <b>AFL</b> : These two days will be utilized to review and analyse the commonly reoccurring mistakes in papers of <b>School Assessments for FBlSE Admission</b></li></ul>

ایپسیکس سلیمس پیک ایس ایس سی I

کولڈ اینڈ وارم ریجن

2021-2020

**اخلاقیات**

دورانیہ		ذرائع
34	کل ہفتے	<p>درسی کتاب:</p> <p>اخلاقیات (9-10)</p> <p>پنجاب ٹیکسٹ بک بورڈ لاہور</p> <p>رجسٹر: ۱- بڑا (Large)/نوٹ بک</p>
26	تدریسی ہفتے	
03	اسیسمنٹ کے ہفتے	
10 دن	تعلیقات موسم سرما	
02	دہرائی + ٹیسٹ سیریز	
03	پری بورڈ امتحانات	
فیڈرل بورڈ امتحانات		

☆ ایف بی آئی ایس ای (FBISE) کے تحت ایس ایس سی امتحانات ۲۰۲۱ء کے لئے کم کیا گیا نصاب:

وفاقی وزارتِ تعلیم نے ۱۴ اکتوبر ۲۰۲۰ء کو FBISE کی آفیشل ویب سائٹ پر، ایس ایس سی کے سالانہ بورڈ امتحانات کے لئے کم کیا گیا نصاب / سلیمس اپ لوڈ کیا ہے۔ لہذا اسکولز اس بات کو یقینی بنائیں کہ درج ذیل نصابی مواد طلباء کو اچھی طرح پڑھایا جائے تاکہ بورڈ کے امتحانات کے لئے طلباء کی تیاری مکمل ہو سکے۔

**ETHICS (For non-muslims)**  
**For Class-IX (50 Marks)**

**1. INTRODUCTION TO RELIGIONS**

- The psychological and personal value of religion
- The social and ethical value of religion

**3. ETHICS AND VALUES**

- Primacy of God
- Systems and places of worship and their collective impact on peoples' behavior with reference to main religions (Hinduism, Buddhism, Zoroastrianism, Christianity, Islam, Sikhism . . . )

**4. ETIQUETTES**

- Places of worship

**5. PERSONALITIES**

- Imam Ghazali
- Florence Nightingale

بلاک-5 (اخلاقیات) بائیسواں ہفتہ

نصابی مواد باب / سبق / موضوعات	ہفتے / دن	ہفتہ
• اے۔ ایف۔ ایل	نمبر 27۔ 28	بائیسواں ہفتہ

سلیبس پیک بلاک-5 (بائیسواں ہفتہ)

ذرائع	تدریسی ہدایات	موضوعات / مقاصد	ہفتہ نمبر
	اے۔ ایف۔ ایل		بائیسواں ہفتہ (2 دن)

**Block 5: English Week 24**

# of wks	Week Dates	Course Content Unit /Chapter/Topics
Week 23	30 Nov – 05 Oct	<ul style="list-style-type: none"> <li>• <b>Unit 8: Stopping by woods on a Snowy Evening</b> Grammar – Adjective phrases – Adverb phrases Exercises – A, B</li> <li>• <b>Grammar</b> Correction of Errors</li> <li>• Punctuation</li> </ul>

**Syllabus Pack Block 5 (week 24)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 24	<b>Unit 8 (Poem)</b> <b>Grammar</b> <b>Adjective phrases</b> <b>Adverb phrases</b>  Students will be able to: <ul style="list-style-type: none"> <li>• replace Adjective Phrases and Adverb Phrases in sentences.</li> </ul>	<ul style="list-style-type: none"> <li>• Read to revise the concept &amp; difference between an <b>Adjective</b> vs <b>Adjective phrase &amp; Adverb</b> vs <b>Adverb phrase</b> from the textbook pg 86.</li> <li>• Elicit more examples to clear the difference.</li> <li>• Engage students in board work in the similar pattern of Ex as given in the textbook pg 87</li> <li>• Students to do Ex A &amp; B in registers Ex C may be given for H.W (Teacher’s discretion)</li> </ul>	<ul style="list-style-type: none"> <li>• English 9 pgs 86, 87</li> </ul>
	<b>Correction of Errors</b> Students will be able to: <ul style="list-style-type: none"> <li>• identify the common errors in the use of different parts of speech</li> </ul>	<ul style="list-style-type: none"> <li>• Check students’ prior knowledge of different parts of speech.</li> <li>• Identification / Discussion on the common grammatical errors in the sentences (board work). Use Past papers for the selection of Ex</li> <li>• Written Work: Identification &amp; Correction of Errors. Give a paragraph for practice.</li> </ul>	<ul style="list-style-type: none"> <li>• Past Papers</li> <li>• A short Ex designed by the teacher</li> </ul>

Week	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> <li>correct the errors</li> </ul>		
	<p><b>Punctuation</b></p> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>revise the use of punctuation marks.</li> <li>Punctuate the sentences</li> </ul>	<ul style="list-style-type: none"> <li>Quick revision of punctuations marks.</li> <li>Teachers to give paragraphs for punctuation from textbooks for practice.</li> <li>Unit # 2, page-19 Exercise-(c)</li> <li>Unit # 4 Page # 43 Exercise-(g)</li> </ul> <p>Past papers may be used for further practice</p>	<ul style="list-style-type: none"> <li>English 9 Textbook Pg 19 &amp; 43</li> <li>Past papers</li> </ul>

نصابی مواد موضوع: سبق / نظم / غزل کا نام	ہفتے / دن	ہفتے
قدریا ز خط غیر رسمی	۳۰ نومبر - ۵ دسمبر	تیسواں ہفتہ

### سلیبس پیک بلاک 5 (تیسواں ہفتہ)

ذرائع	طریقہ تدریس	موضوعات / مقاصد	ہفتہ نمبر
☆ اردو برائے جماعت نہم ☆ صفحات ۸۷ تا ۹۶ ☆ بورڈ مارکر	☆ طلباء سبق کی پڑھائی کریں اور مشکل الفاظ کے لیے لغت کا استعمال کریں۔ ☆ سبق میں چھپے اخلاقی پہلو (انسان کی قدر و قیمت اسکے خلوص، محبت، ایمانداری، کوشش و لگن پر منحصر ہے) کو سمجھیں۔ ☆ دیہات اور دیہاتی زندگی بڑی اہمیت کی حامل ہے طلباء کو سمجھنا چاہیے کہ دیہات میں سادگی اپنائیت اور خلوص موجود ہے اس کی اہمیت سے منہ نہیں موڑا جاسکتا۔  انسانیت ایک چھپا ہوا خزانہ ہے اسے لباس میں مت تلاش کر ☆ علامہ اقبال کے اس شعر کے پس منظر میں تلمیح کی کہانی بیان کی گئی ہے اس کہانی کو انٹرنیٹ سے یا کسی اور ذریعے سے تلاش کر کے پڑھا/ سنا جائے۔  ایک ہی صف میں کھڑے ہو گئے محمود وایاز نہ کوئی بندہ رہا نہ کوئی بندہ نواز  ☆ مشقی سوالات	قدریا ز طلباء اس قابل ہوں گے کہ: ۱۔ سبق کی پڑھائی اور مشکل الفاظ کے معنی لغت میں سے تلاش کر سکیں۔ ۲۔ سبق میں پوشیدہ اخلاقی پہلو کو سمجھ سکیں۔ ۲۔ مشقی سوالات کے جوابات لکھ سکیں۔ ۳۔ نثر پارے کی تشریح کر سکیں۔	تیسواں ہفتہ



ذرائع	طریقہ تدریس	موضوعات / مقاصد	ہفتہ نمبر
	<p>☆ کسی ایک پیرا گراف کی تشریح مندرجہ ذیل نکات کی مدد سے کی جائے۔</p> <p>تشریح کا مکمل طریقہ سبق ہجرت نبوی ﷺ میں بتادیا گیا ہے۔</p> <ul style="list-style-type: none"> <li>• سبق کا نام ----- قدرایاز</li> <li>• مصنف کا نام ----- کرنل محمد خان</li> <li>• سیاق و سباق</li> <li>• حل لغت -----</li> <li>• تشریح</li> </ul>		
<p>☆ اردو قواعد و انشاء</p> <p>9-10</p> <p>☆ صفحات ۶۱ تا ۵۹</p> <p>☆ بورڈ مارکر</p>	<p>☆ آپ کا دوست کافی دنوں سے بیمار ہے اور سکول سے غیر حاضر ہے خط لکھ کر اسکی خیریت دریافت کریں۔</p> <p>☆ طلباء خط لکھنے کے اصول و ضوابط پہلے پڑھ چکے ہیں جو اردو قواعد و انشاء 10-9 صفحات ۶۱ تا ۵۹ پر دیے گئے ہیں</p> <p>انہی اصول و ضوابط کی روشنی میں دیے گئے موضوع پر خط تحریر کریں۔</p> <p>☆ اہم نکات (بیمار پر سی، جان ہے تو جہان ہے، صحت کی اہمیت، پڑھائی میں نقصان ہو چکا ہے اس میں مدد کی پیش کش)</p>	<p><u>خط غیر رسمی</u></p> <p>طلباء اس قابل ہوں گے کہ:</p> <p>۱۔ خطوط نویسی کے اصول و ضوابط کی روشنی میں دیے گئے موضوع پر دلچسپ اور معلوماتی خط تحریر کر سکیں۔</p>	

**Block 5: Mathematics Week 23**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 23	Nov 30 – Dec 05	<b>Unit 13: Sides and Angles of a Triangle</b> Exercise 13.1: Q1; Q3 Exercise 13.2: Q1; Q2; Q3 Theorems: 13.1.1; 13.1.3; 13.1.4 Review Ex 13: Q1

**Syllabus Pack Block 5 (week 23)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 23	<b>Unit 13</b> <b>Sides and Angles of a Triangle</b>  13.1.(i) Sides of a Triangle (ii)Angles of a Triangle  <ul style="list-style-type: none"> <li>Theorem 13.1.1 (revision)</li> <li>Theorem 13.1.3</li> <li>Ex 13.1: Q1; Q3</li> <li>Theorem 13.1.4</li> <li>Ex 13.2: Q1, Q2, Q3</li> </ul> Review Ex 13  At the end of Unit 13 students will be able to:  <ul style="list-style-type: none"> <li>Prove that if two sides of a triangle are unequal in</li> </ul>	<p><i>*Theorem 13.1.1 has already been covered in the previous block syllabus but to ensure continuity and progression in the concepts, a fraction of time may be spent to revise it.</i></p> <p><b>13.1.(i) Sides of a Triangle</b>  <b>(ii)Angles of a Triangle</b></p> <ul style="list-style-type: none"> <li>Revise the introduction the chapter on pg. 218 that requires students to recall the earlier studied concepts i.e. if two sides of a triangle are equal than the angles opposite to those sides are also equal and vice versa.</li> <li>Once this concept has been recalled, remind the students how there are interesting inequality relations among sides and angles of a triangle and that this chapter will focus on them.</li> </ul> <p><b><u>Theorem 13.1.1: pg 218, 219</u></b></p> <ul style="list-style-type: none"> <li><b>If two sides of a triangle are unequal in length, the longer side has an angle of greater measure opposite to it.</b></li> <li>Revise the statement and its proof.</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics 9 (Science Group) by Caravan Book House, Lahore</li> <li>Laptop / Tab / Smart Phone</li> <li>Watch the relevant videos on <a href="http://www.sabaq.pk">www.sabaq.pk</a></li> </ul>

Week	Topic/ Objectives	Study Guidelines	Resources
	<p>length, the longer side has an angle of greater measure opposite to it</p> <ul style="list-style-type: none"> <li>• Prove that the sum of the lengths of any two sides of a triangle is greater than the length of the third side</li> <li>• Prove that from a point, outside a line, the perpendicular is the shortest distance from the point to the line</li> <li>• Solve the relevant questions included in the reduced syllabus</li> </ul>	<ul style="list-style-type: none"> <li>• Solve the relevant example 1.</li> </ul> <p><b><u>Theorem 13.1.3: pg 222, 223</u></b></p> <ul style="list-style-type: none"> <li>• <b>The sum of the lengths of any two sides of a triangle is greater than the length of the third side.</b></li> <li>• Ask the students to go through the statement of the theorem and discuss with them the conditions which are 'given' and what' to prove'.</li> <li>• Draw the figure and construction from pg. 222 on board and then explain the steps logically to the students as given on pgs. 222-223.</li> <li>• Students will solve this theorem in their notebooks and practice it as H.W.</li> <li>• Solve the relevant examples 1, 2 &amp; 3 given on pg. 223-224.</li> <li>• Teacher to discuss the solution of Q1 &amp; Q3 of Ex 13.1 and students to solve them independently in the class and practice them as homework.</li> </ul> <p><b><u>Theorem 13.1.4: pg 225, 226</u></b></p> <ul style="list-style-type: none"> <li>• <b>From a point, outside a line, the perpendicular is the shortest distance from the point to the line</b></li> <li>• Ask the students to go through the statement of the theorem and discuss with them the conditions which are 'given' and what' to prove'.</li> <li>• Draw the figure and construction from pg. 225 on board and then explain the steps logically to the students as given on pgs. 225-226.</li> <li>• Students will solve this theorem in their notebooks and then as HW.</li> <li>• Discuss the points given under the heading <b>Note</b> on pg. 226.</li> </ul>	

Week	Topic/ Objectives	Study Guidelines	Resources
		<ul style="list-style-type: none"><li>• Teacher to discuss the solution of Q1, Q2 &amp; Q3 of Ex 13.2 and students to solve them independently in the class and practice them as homework.</li><li>• Q1 of Review Exercise 13 to be solved as a class and problem areas to be discussed.</li></ul>	

**Block 5: Physics Week 23**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 23	Nov 30 – Dec 05	<b>Unit 8: Contd...</b> <b>Thermal Properties of Matter</b> 8.8 THERMAL EXPANSION

**Syllabus Pack Block 5 (week 23)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 23	<b>Unit 8: Contd...</b> <b>Thermal Properties of Matter</b>  8.8 THERMAL EXPANSION <ul style="list-style-type: none"> <li>• LINEAR THERMAL EXPANSION IN SOLIDS</li> <li>• VOLUME THERMAL EXPANSION</li> <li>• CONSEQUENCES OF THERMAL EXPANSION</li> <li>• APPLICATIONS OF THERMAL EXPANSION</li> <li>• BIMETAL STRIP</li> <li>• THERMAL EXPANSION OF LIQUIDS</li> <li>• ACTIVITY</li> </ul> Examples 8.6, 8.7 Questions 8.7 Numerical Problems 8.3 and 8.4  Students will be able to: <ul style="list-style-type: none"> <li>• describe linear and volumetric thermal expansion of solids</li> <li>• solve numerical problems</li> </ul>	<b>Explanation &amp; Discussion</b> (page 183-192) <ul style="list-style-type: none"> <li>• Explanation of expansion of materials on heating. Ask students to cite such examples from daily life.</li> <li>• Definition and explanation of expansion of solids on the basis of kinetic molecular theory.</li> <li>• Derivation of mathematical relation for linear expansion: <b><math>L = L_0(1 + \alpha \Delta T)</math></b></li> <li>• Teacher to solve example 8.6 on pages 184-186 of the Textbook.</li> <li>• Derivation of mathematical relation for volume thermal expansion: <b><math>V = V_0(1 + \beta \Delta T)</math></b></li> <li>• Teacher to solve example 8.7 on pages 186, 187 of the Textbook.</li> <li>• Design numerical problems related to linear and volumetric expansion and let the students solve them independently.</li> <li>• Discuss with students consequences and applications of thermal expansion of solids</li> <li>• Explain and illustrate that bimetallic strip used in the thermostat is based on the different rate of expansion of different metals on heating. Explain its different applications.</li> </ul>	<ul style="list-style-type: none"> <li>• Physics 9 by Caravan Book House, Lahore pgs 183-187, 191 &amp; 192</li> <li>• Marker</li> <li>• Board</li> <li>• Available A/V Aids</li> <li>• Watch relevant videos on <a href="http://www.sabaq.pk">www.sabaq.pk</a></li> </ul>

Week	Topic/ Objectives	Study Guidelines	Resources
	<p>related to linear and volumetric thermal expansion of solids</p> <ul style="list-style-type: none"><li>• explain that the bimetallic strip used in the thermostat is based on the different rate of expansion of different metals on heating</li><li>• list and explain some of the everyday applications and consequences of thermal expansion</li><li>• describe the thermal expansion of liquids and solve numerical problems related it</li></ul>	<ul style="list-style-type: none"><li>• Discuss with the students thermal expansion of liquids.</li><li>• Activity on textbook pg. 189 can be carried out in the class or Physics Laboratory.</li><li>• Discuss question 8.7 on page 191 of the Textbook with students.</li><li>• Solve numerical problems 8.3 and 8.4.</li></ul>	

**Block 5: Chemistry Week 23**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 23	Nov 30- Dec 05	<b><u>Chapter 7</u></b> <b>Electrochemistry</b> <ul style="list-style-type: none"> <li>• Electrolytic Cells</li> <li>• Uses of Electrolytic Cells</li> <li>• Galvanic cells</li> <li>• (Daniel cells)</li> <li>• Reactions in a Daniel cell</li> <li>• Electroplating on Steel</li> <li>• Zinc Plating</li> <li>• Chromium Plating</li> <li>• Corrosion and its Prevention</li> <li>• Rusting of Iron</li> <li>• Corrosion of Aluminium</li> <li>• Cathodic Protection</li> <li>• Review Questions &amp; Think-Tank</li> </ul>

**Syllabus Pack Block 5 (week 23)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 23	<b><u>Chapter 7</u></b> <b>Electrochemistry</b> <p>7.5.3 Electrolytic Cells</p> <p>7.5.4 Uses of Electrolytic Cells</p> <p>7.5.5 Galvanic cells (Daniel cells)</p> <p>7.5.6 Reactions in a Daniel cell</p> <ul style="list-style-type: none"> <li>▪ Electroplating on Steel</li> </ul>	<b><u>Explanation and Discussion:</u></b> <b>The Teacher will</b> <ul style="list-style-type: none"> <li>• Explain electrolytic refining of copper.</li> <li>• Draw fig. 7.5 on board and explain the construction of an electrolytic cell and the step wise processes taking place in the cell</li> <li>• Help students analyze the composition of Daniel cell with the help of diagram.</li> <li>• Explain the uses of electrolytic cells</li> <li>• Introduce electroplating.</li> <li>• Draw fig. 7.12 on the board and explain the</li> </ul>	<ul style="list-style-type: none"> <li>• Textbook of Chemistry Grade 9 National Book Foundation as Federal Textbook Board-Islamabad Laptop / Tab / Smart Phone / internet</li> <li>• Board</li> <li>• Marker</li> <li>• Available A/V Aids</li> <li>• reliable websites for relevant information</li> </ul>

Week	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> <li>➤ Zinc Plating</li> <li>➤ Chromium Plating</li> </ul> <p>7.7 Corrosion and its Prevention</p> <ul style="list-style-type: none"> <li>▪ Rusting of Iron</li> <li>▪ Corrosion of Aluminium</li> </ul> <ul style="list-style-type: none"> <li>➤ Cathodic Protection</li> </ul> <p>❖ <b>Self-Assessment Exercise 7.5</b></p> <ul style="list-style-type: none"> <li>➤ <b>Review Questions &amp; Think-Tank</b></li> </ul> <p><b>Objectives:</b> <b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>➤ define and explain the construction and working of an electrolytic cell.</li> <li>➤ sketch an electrolytic cell, label the cathode and anode</li> <li>➤ identify the movement of cations and anions towards respective electrodes</li> <li>➤ list the possible uses of electrolytic cells</li> <li>➤ define Daniel cell</li> <li>➤ draw the diagram of galvanic cell</li> <li>➤ label anode and cathode and the direction of flow of current through this cell</li> <li>➤ differentiate between electrolytic cell and galvanic cell</li> <li>➤ explain the reactions taking place in a Daniel</li> </ul>	<p>reactions taking place at anode and cathode.</p> <ul style="list-style-type: none"> <li>• Draw fig.7.13 on the board and explain the reactions taking place at cathode and anode</li> <li>• discuss the conditions for good electroplating.</li> <li>• Explain why electroplating is done on steel and how it is done with the following elements.</li> <li>• Zinc</li> <li>• Chromium</li> <li>• Analyze the chemical processes taking place at cathode and anode in each case with students' input.</li> <li>• Define corrosion.</li> <li>• Describe the science behind the rusting of iron with the help of chemical reactions</li> <li>• Discuss the rusting of Aluminium.</li> <li>• Describe the techniques which are utilized to prevent corrosion.</li> </ul> <ul style="list-style-type: none"> <li>• Guide the students to do Self-assessment exercise and topic related exercise questions individually.</li> </ul> <p><b>Reference Link:</b> <a href="https://www.toppr.com/guides/chemistry/electrochemistry/galvanic-cells/">https://www.toppr.com/guides/chemistry/electrochemistry/galvanic-cells/</a></p> <p><b>Written work:</b></p> <ul style="list-style-type: none"> <li>• Topic related objectives &amp; subjective Questions from exercise and Think Tank</li> </ul>	



Week	Topic/ Objectives	Study Guidelines	Resources
	<p>cell.</p> <ul style="list-style-type: none"><li>➤ identify the conditions necessary for good electroplating.</li><li>➤ state the importance of electroplating on steel.</li><li>➤ differentiate among zinc and chromium plating</li><li>➤ describe &amp; define rusting</li><li>➤ describe &amp; define corrosion</li><li>➤ differentiate between rusting and corrosion of the basis of chemical reactions</li><li>➤ explain in detail the chemistry involved in corrosion process</li><li>➤ understand the corrosion in Aluminium</li><li>➤ identify the ways to prevent the corrosion in different ways</li><li>➤ discuss the cathodic protection and its practical applications</li><li>➤ solve and answer the topic related questions given in exercise.</li></ul>		

**Block 5: Biology Week 23**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 23	Nov 30- Dec 05	Revision of <ul style="list-style-type: none"> <li>Chapter 1 :Introduction to Biology</li> <li>Chapter 2: Solving a Biological Problem</li> </ul>

**Syllabus Pack Block 5(week 23)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 23	<p><b>Chapter 1</b> <b><u>Introduction to Biology</u></b> Revision of all topics and sub topics of the chapter as per reduced syllabus by FBISE</p> <p><b>Chapter 2:</b> <b><u>Solving a Biological Problem</u></b> Revision of all topics and sub topics of the chapter as per reduced syllabus by FBISE</p> <p><b><u>Practical:</u></b> Study of different types of bacteria with the help of prepared slides of <i>Amoeba</i>, <i>Paramecium</i>, <i>Volvox</i> from prepared slides/ fresh culture/charts <b>(Revision)</b></p> <p><b><u>Objectives:</u></b> At the end of week</p>	<p><b><u>Explanation and Discussion:</u></b></p> <ul style="list-style-type: none"> <li>Discussion and Explanation of all important topics of the chapter as per students' need .</li> <li>Worksheets to be prepared by the teacher and given to be solved.</li> <li>Class tests to be taken from significant topics</li> </ul> <p><b><u>Written work:</u></b> Written practice of All topic related questions from exercise with practice of necessary drawings and webs.</p> <p><b><u>Practical:</u></b> Study of different types of bacteria with the help of prepared slides (Revision)</p>	<ul style="list-style-type: none"> <li>Biology 9 PLD Publishers, Lahore Biology Practical Notebook For Class 9 &amp; 10</li> <li>Board</li> <li>Marker</li> <li>Available A/V Aids</li> <li>Relevant and recommended websites by the teacher</li> </ul>

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
	students will be able to: <ul style="list-style-type: none"><li>• discuss and explain the important concepts given in the chapters.</li><li>• answer all topic related questions of the chapters as required in board papers.</li></ul>		

**Block 5: Computer Science Week 23**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 23	Nov 30- Dec 05 (Revision)	<b>Revision of Chapter 4: Data Communication</b> <ul style="list-style-type: none"> <li>• <b>Basic Terms of Data Communication</b> <ul style="list-style-type: none"> <li>▪ Data</li> <li>▪ Data transmissions</li> <li>▪ Analog and Digital Signals</li> <li>▪ Analog Signals</li> <li>▪ Digital Signals</li> </ul> </li> <li>• <b>Components of a Communication System</b> <ul style="list-style-type: none"> <li>▪ Sender</li> <li>▪ Receiver</li> <li>▪ Message</li> <li>▪ Transmission Medium</li> <li>▪ Protocol</li> </ul> </li> <li>• <b>Characteristics of a Good Communication System</b> <ul style="list-style-type: none"> <li>▪ Delivery</li> <li>▪ Accuracy</li> <li>▪ Timeliness</li> </ul> </li> <li>• <b>Asynchronous and Synchronous Transmission Modes</b> <ul style="list-style-type: none"> <li>▪ Asynchronous Transmission</li> <li>▪ Synchronous Transmission</li> </ul> </li> <li>• <b>Transmission Media</b></li> <li>• <b>Types of Transmission Media</b></li> <li>• <b>Guided Media</b> <ul style="list-style-type: none"> <li>▪ Twisted Pair Cable</li> <li>▪ Coaxial Cable</li> <li>▪ Fiber Optic cable</li> </ul> </li> <li>• <b>Unguided Media</b> <ul style="list-style-type: none"> <li>▪ Radio Waves</li> <li>▪ Microwave</li> <li>▪ Infra-red</li> <li>▪ Bluetooth</li> <li>▪ Satellite</li> </ul> </li> <li>• <b>Transmission Impairments</b></li> </ul>

Wks	Time line	Course Content Unit /Chapter/Topics
		<ul style="list-style-type: none"> <li>▪ Attenuation</li> <li>▪ Amplification</li> <li>▪ Distortion</li> <li>▪ Cross talk</li> <li>• Communication Devices                             <ul style="list-style-type: none"> <li>▪ Dial-up Modem</li> <li>▪ Network interface card</li> <li>▪ Router</li> <li>▪ Switch/Access Point</li> </ul> </li> <li>• Communication Terminologies</li> <li>• Data transmission terminologies                             <ul style="list-style-type: none"> <li>▪ Data Rate</li> <li>▪ Baud Rate</li> <li>▪ Bandwidth</li> <li>▪ Signal-to-noise Ratio</li> </ul> </li> <li>• Characteristics of Communication Channel</li> <li>• Related Questions at the end of Chapter</li> </ul>

**Syllabus Pack Block 5 (week 23)**

Week	Topic/ Objectives	Study Guidelines	Resources
<p><b>Week 23 (Revision)</b></p>	<p><b>Chapter # 4: Data Communication (Revision)</b></p> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Revise all concepts given on pg#124-139 regarding Fundamentals of Computer.</li> </ul>	<ul style="list-style-type: none"> <li>• Revise all important definitions and topics given in chapter.</li> <li>• Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google <b>about the Data Communication.</b></li> <li>• Watch the topics(mentioned in block) related videos on sabaq.pk and e- learn.</li> <li>• Revise the concepts given in Ch#4(Data Communication)</li> <li>• Revision with the help of worksheets. Worksheets consist of all types of questions that are asked in the</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook of Computer Science Grade 9</li> <li>- National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 124-139</li> <li>- Exercise(MCQs Short Q/A,Long Q/A )</li> </ul>

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
		<p>Federal Board e.g MCQs, short questions, long questions etc.</p> <ul style="list-style-type: none"><li>• Short &amp; long questions of worksheets further contain their respective types e.g Transmission Media, Communication Technology etc.</li><li>• Ask students to perform practically in the computer Lab</li><li>• Revise the answers of relevant questions given at the end of chapter.</li></ul>	<p><b>Reference Links:</b></p> <ul style="list-style-type: none"><li>– Watch the topic related videos on sabaq.pk</li></ul> <p>Solve the practice test given with topics on sabaq.pk</p>

بلاک-5 (اسلامیات) تیسواں ہفتہ

نصابی مواد باب/سبق/موضوعات	ٹائم لائن	ہفتہ نمبر
باب سوم: موضوعاتی مطالعہ ☆قرآن مجید (تعارف، حفاظت اور فضائل) - دہرائی	30 نومبر - 05 دسمبر	تیسواں ہفتہ

سلیبس پیک بلاک-5 (تیسواں ہفتہ)

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر
<ul style="list-style-type: none"> <li>اسلامیات لازمی (9-10)</li> <li>(ص: 56-58)</li> </ul>	<ul style="list-style-type: none"> <li>سبق قرآن مجید (تعارف، حفاظت اور فضائل) طلباء جماعت ہشتم میں پڑھ چکے ہیں۔ لہذا امتحانات کی تیاری کو مد نظر رکھتے ہوئے، طلباء سبق کی اچھی طرح دہرائی کریں۔</li> <li>موضوعات سے متعلقہ آیات مع ترجمہ اچھی طرح سمجھ کر زبانی یاد کریں۔</li> <li>سبق میں بیان کردہ اہم موضوعات کو سمجھ کر اپنے الفاظ میں نوٹ بکس پر لکھیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات پر زبانی تبادلہ خیال کرتے ہوئے اچھی طرح دہرائی کی جائے تاکہ امتحانات کی تیاری مکمل ہو سکے، نیز عملی زندگی میں سبق میں بیان کردہ اہم نکات سے استفادہ حاصل کیا جاسکے۔</li> </ul>	<p>باب سوم: موضوعاتی مطالعہ ☆قرآن مجید (تعارف، حفاظت اور فضائل) - دہرائی</p> <p>طلباء اس قابل ہوں گے کہ:</p> <ul style="list-style-type: none"> <li>سبق قرآن مجید (تعارف، حفاظت اور فضائل) کی دہرائی کر سکیں۔</li> <li>سبق میں دی گئی آیات مبارکہ مع ترجمہ کی دہرائی کر سکیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات کی دہرائی کر سکیں۔</li> </ul>	تیسواں ہفتہ

**Block 5: Pakistan Studies Week 23**

# of wks	Time line	Course Content Unit /Chapter name
<b>Week 23</b>	Nov 30- Dec 05	<b>Chapter 1: Ideological Basis of Pakistan</b> <ul style="list-style-type: none"><li>• Basis of the ideology of Pakistan</li><li>• Two Nation Theory : origin , evolution and explication</li><li>• Ideology of Pakistan and Quaid-e- Azam Muhammad Ali Jinnah</li></ul>



نصابی مواد باب/سبق/موضوعات	ہفتے/دن	ہفتہ
پہلا باب: مذاہب کا تعارف • مذاہب کی ذاتی اور نفسیاتی اہمیت (دہرائی)	نومبر 30- دسمبر 05	تیسواں ہفتہ

### سلیبس پیک بلاک-5 (تیسواں ہفتہ)

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر
☆ اخلاقیات (9-10) پنجاب ٹیکسٹ بک بورڈ لاہور صفحات: 1 تا 5 ☆ بورڈ، مارکر	• طلبا سبق " مذاہب کی ذاتی اور نفسیاتی اہمیت " میں پڑھی گئی معلومات کی روشنی میں مذہبی و اخلاقی تعلیمات کی اہمیت، مذہب اور نفسیات کے گہرے تعلق، مذہب انسان کا نفسیاتی سہارا بھی ہے اور نفسیاتی علاج بھی پر تبادلہ خیال کریں۔ تمام سبقی معلومات اور مشقی سوالات کی دہرائی کریں۔	پہلا باب: مذاہب کا تعارف مذاہب کی ذاتی اور نفسیاتی اہمیت طلبا اس قابل ہوں گے کہ: پڑھی گئیں تمام سبقی معلومات اور مشقی سوالات کا اعادہ کر سکیں۔	تیسواں ہفتہ

Subject: English– IX  
**Block 5: English Week 24**

Session (2020-2021)

# of wks	Week Dates	Course Content Unit /Chapter/Topics
Week 24	07 Dec – 12 Dec	<ul style="list-style-type: none"> <li>• <b>Unit 10: Drug Addiction</b> Grammar – Relatives pronouns – Adjective clauses Exercises – A, C, D</li> <li>• <b>Translation – Urdu to English</b></li> </ul>

**Syllabus Pack Block 5 (week 24)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 24	<p><b>Unit 10: Drug Addiction</b>  <b>Grammar</b>  <b>Relatives Pronoun</b>  <b>Adjective Clause</b></p> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Identify &amp; use Relative Pronoun in sentences</li> <li>• analyze and convert Adjective Phrase into Adjective Clause</li> </ul>	<ul style="list-style-type: none"> <li>• Check students' prior knowledge of the two concepts through a short interactive activity / board work.</li> <li>• Explanation &amp; oral practice of using Relative Pronoun in variety of sentences.</li> <li>• Explain that Adjective Clauses don't usually change the basic meaning of a sentence. Rather, they clarify the writer's intent. Refer Grammar box, textbook pg 109.</li> <li>• Tell students with examples that they may also begin with Relative Adverbs, such as: when, where &amp; why. Explain that adjective &amp; adverb Clauses are always dependent clauses.</li> <li>• <b>Class Practice:</b> Write some Adjective Phrases on the board, asking students to convert them into Adjective Clause. For example:</li> <li>• <b>Adjective Phrase:</b> The boy leading the parade is quite capable.</li> <li>• <b>Adjective Clause:</b> The boy who is leading the parade is quite capable.</li> <li>• Students to do Ex A &amp; C in the textbook, whereas</li> </ul>	English 9 pgs 109, 110

Week	Topic/ Objectives	Study Guidelines	Resources
		Ex D in notebooks. Ref. pg110.	
	<p><b><u>Translation</u></b>  <b>Present Tenses</b>  <b>Urdu to English</b>            Students will be able to</p> <ul style="list-style-type: none"> <li>• Identify tense</li> <li>• revise the structure of sentence in that particular tense.</li> <li>• translate the sentences.</li> </ul>	<ul style="list-style-type: none"> <li>• Revision of the Tense – formation &amp; application with examples on the board.</li> <li>• Refer FBISE reduced syllabus &amp; use the prescribed Grammar Book for Present Tenses (pages 74 to 87).</li> <li>• Some of the Exercises are to be done orally, whereas the left-over Exercises to be practiced as written work.</li> <li>• Written work: Teacher to give selected sentences for translation as C.W &amp; H.W.</li> </ul>	English Grammar and Composition 9-10, PTB, Lahore, 1st Edition March, 2020) pgs 74 - 87

نصابی مواد موضوع: سبق / نظم / غزل کا نام	ہفتے / دن	ہفتے
غزل میر تقی میر (دہرائی) غزل، مطلع، مقطع	۷ دسمبر - ۱۲ دسمبر	چوبیسواں ہفتہ

### سلیبس پیک بلاک 5 چوبیسواں ہفتہ)

ذرائع	طریقہ تدریس	موضوعات / مقاصد	ہفتہ نمبر
☆ اردو برائے جماعت نہم ☆ صفحات ۱۲۵، ۱۲۹ ☆ بورڈ مارکر	☆ غزل کی دہرائی مندرجہ ذیل نکات کی مدد سے کی جائے • غزل کے معنی و مفہوم کو سمجھنا۔ • غزل کی پڑھائی اور مشکل الفاظ و تراکیب کے لیے لغت کا استعمال۔ • پوری غزل کی تشریح مع امثال / حوالہ جات • ☆ مشقی سوالات	غزل میر تقی میر (دہرائی) طلباء اس قابل ہوں گے کہ: غزل کی پڑھائی اور الفاظ معانی، مشقی سوالات کے جوابات اور غزل کی تشریح کا اعادہ کر سکیں۔	چوبیسواں ہفتہ
☆ اردو برائے جماعت نہم ☆ صفحات ۱۲۷، ۱۲۸ ☆ بورڈ مارکر	☆ طلباء اردو برائے جماعت نہم کے صفحہ نمبر ۱۲۷ پر دی گئی غزل کی تعریف پڑھیں اور یاد کریں۔ ☆ طلباء اردو برائے جماعت نہم کے صفحہ نمبر ۱۲۷، ۱۲۸ پر مطلع، مقطع کی تعریف کو پڑھیں اور یاد کریں۔	غزل، مطلع، مقطع طلباء اس قابل ہوں گے کہ: ۲۔ غزل، مطلع، مقطع کا اعادہ کر سکیں۔	

**Block 5: Mathematics Week 24**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 24	Dec 07 – Dec 12	<b>Unit 14: Ratio and Proportion</b> Exercise 14.1: Q1 Exercise 14.2: Q1; Q2 Theorems: 14.1.3 Review Ex 14: Q1; Q4; Q5; Q6

**Syllabus Pack Block 5 (week 24)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 24	<p><b>Unit 14</b> <b>Ratio and Proportion</b></p> <p>14.1 Ratio and Proportion</p> <p>Exercise 14.1: Q1 Exercise 14.2: Q1; Q2 Theorem: 14.1.3 Review Ex 14: Q1; Q4; Q5; Q6</p> <p>At the end of Unit 14 students will be able to:</p> <ul style="list-style-type: none"> <li>Comprehend that a line parallel to one side of a triangle, intersecting the other two sides, divides them proportionally.</li> <li>Comprehend that if a line segment intersects the two sides of a triangle in</li> </ul>	<p><i>*Teacher to briefly skim through the theorems that are not included in the reduced syllabus to build an understanding and relevance to the included concepts in complete context. However, the content that is included must be focused upon and made clear to the students</i></p> <p><b>14.1 Ratio and Proportion:</b></p> <ul style="list-style-type: none"> <li>Introduce the concept of ratio and proportions in triangles using some examples of similar triangles.</li> <li>Go through the statements and concept behind the theorems 14.1.1 and 14.1.2 and their corollaries to solve Q1 of Ex 14.1.</li> </ul> <p><b><u>Theorem 14.1.3: pg 233, 234</u></b></p> <ul style="list-style-type: none"> <li><b>The internal bisector of an angle of a triangle divides the side opposite to it in the ratio of the lengths of the sides containing the angle</b></li> <li>Ask the students to go through the statement of the theorem and discuss with them the conditions which are 'given' and what' to prove'.</li> <li>Draw the figure and construction from pg. 233 on board and then explain the steps logically to the</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics 9 (Science Group) by Caravan Book House, Lahore</li> <li>Laptop / Tab / Smart Phone</li> <li>Watch the relevant videos on <a href="http://www.sabaq.pk">www.sabaq.pk</a></li> </ul>

Week	Topic/ Objectives	Study Guidelines	Resources
	<p>the same ratio, then it is parallel to the third side.</p> <ul style="list-style-type: none"><li>• Prove that the internal bisector of an angle of a triangle divides the side opposite to it in the ratio of the lengths of the sides containing the angle</li><li>• Comprehend that if two triangles are similar, the measures of their corresponding sides are proportional</li><li>• Solve the relevant questions included in the reduced syllabus</li></ul>	<p>students as given on pgs. 233-234.</p> <ul style="list-style-type: none"><li>• Students will solve this theorem in their notebooks and then as HW.</li><li>• Solve the included Q1 and Q2 of Ex 14.2</li><li>• Solve the Review Ex 14: Q1, Q4, Q5 and Q6.</li></ul>	

**Block 5: Physics Week 24**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 24	Dec 07 – Dec 12	<b>Need based Revision</b>  Unit 1 “Physical Quantities and Measurement”

**Syllabus Pack Block 5 (week 24)**

Week	Topic/ Objectives	Study Guidelines	Resources						
Week 24	<p style="text-align: center;"><b>Need based Revision</b></p> <p><b>Students will go through a thorough interactive discussion/ problem solving and revision session for Unit 1 “Physical Quantities and Measurement” along the lines of exam preparation (focused and limited to the content given in the reduced syllabus i.e.</b></p> <p><b>Unit 1 Physical Quantities and Measurements</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1.2 Physical quantities</td> <td style="width: 50%;">1.3 International system of units</td> </tr> <tr> <td>1.4 Prefixes</td> <td>1.5 Scientific Notation</td> </tr> <tr> <td colspan="2">1.6 Measuring Instruments (Vernier callipers, Screw gauge, Stop Watch only) (Tables: 1.2, 1.3, 1.4 included)</td> </tr> </table> <p>Relevant Exercise Questions should be reinforced by discussion followed by written practice</p>			1.2 Physical quantities	1.3 International system of units	1.4 Prefixes	1.5 Scientific Notation	1.6 Measuring Instruments (Vernier callipers, Screw gauge, Stop Watch only) (Tables: 1.2, 1.3, 1.4 included)	
1.2 Physical quantities	1.3 International system of units								
1.4 Prefixes	1.5 Scientific Notation								
1.6 Measuring Instruments (Vernier callipers, Screw gauge, Stop Watch only) (Tables: 1.2, 1.3, 1.4 included)									

**Block 5: Chemistry Week 24**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 24	Dec 07-Dec 12	<b>Chapter 8</b> <b>CHEMICAL REACTIVITY</b> <ul style="list-style-type: none"> <li>Metals</li> <li>Electropositive Character</li> <li>Comparison of Reactivity of Alkali Metals and Alkaline Earth Metals</li> <li>Position of Alkali Metals and Alkaline Earth Metals in the Periodic Table</li> <li>Topic Related Exercise Questions</li> <li>Practical:</li> </ul>

**Syllabus Pack Block 5 (week 24)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 24	<b>Chapter 8</b> <b>CHEMICAL REACTIVITY</b> <ul style="list-style-type: none"> <li><b>Pre Reading</b></li> <li>8.1 Metals</li> <li>8.1.1 Electropositive Character               <ul style="list-style-type: none"> <li>Table 8.1</li> <li>Example 8.1</li> </ul> </li> <li>Self-Assessment Exercises 8.1 &amp; 8.2</li> <li>8.1.2 Comparison of Reactivity of Alkali Metals and Alkaline Earth Metals               <ul style="list-style-type: none"> <li>➤ Position of Alkali Metals and Alkaline Earth Metals in the Periodic Table</li> </ul> </li> <li><b>Topic Related Exercise Questions</b></li> </ul> <p><b>Practical:</b> Demonstrate the conductivity of different given solutions. Minor</p>	<b><u>Explanation and Discussion:</u></b> <b>The Teacher will</b> <ul style="list-style-type: none"> <li>recap the concept of valence shell electronic configuration.</li> <li>introduce of the chapter to the students</li> <li>share with the students the nature of reactions that take place.</li> <li>explain the relation between reactivity and valence shell electronic configuration of elements</li> <li>practice Brainstorm and then brief description of the properties of metals</li> <li>discuss and then explain the electropositive character of metals</li> <li>discuss periodicity of electropositive character of metals and its relation to ionization energy</li> <li>guide students to solve example questions and self-Assessment Exercises</li> </ul>	<ul style="list-style-type: none"> <li>Textbook of Chemistry Grade 9 National Book Foundation as Federal Textbook Board-Islamabad</li> <li>Board</li> <li>Marker</li> </ul>



Week	Topic/ Objectives	Study Guidelines	Resources
	<p><b><u>Objectives:</u></b>  <b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• define Chemical Reactivity</li> <li>• state the importance of chemical reactions in daily life</li> <li>• explain relation between reactivity of elements and the electrons in outermost shell</li> <li>• discuss the general properties of metals.</li> <li>• identify electropositive character of metals and its periodicity</li> <li>• explain the nature of oxides of elements in period # 3</li> <li>• solve relevant example, self-assessment and exercise questions</li> <li>• Identify the position of Alkali And Alkaline Earth Metals in the periodic table.</li> <li>• differentiate between the reactivity of Alkali And Alkaline Earth Metals.</li> <li>• analytically study the ionization energies of Alkali And Alkaline Earth Metals.</li> <li>• classify and study alkali and alkaline earth metals based on their importance</li> <li>• solve relevant example, self-assessment and exercise questions</li> <li>• perform the given practical, find the conclusion and note their findings in the practical notebook</li> </ul>	<p>(Group Work :divide the students into groups and engage them in solving self-assessment questions)</p> <ul style="list-style-type: none"> <li>• demonstrate practical using equipment and chemicals followed by guided practices</li> </ul> <p><b><u>Reference Link:</u></b>  <a href="http://www.chemistry-assignment.com/electropositivity-or-metallic-character">http://www.chemistry-assignment.com/electropositivity-or-metallic-character</a></p> <p><b><u>Written work:</u></b>            Topic related objectives &amp; subjective Questions from exercise and Think Tank</p>	

**Block 5: Biology Week 24**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 24	Dec 07-Dec 12	Revision of <ul style="list-style-type: none"> <li>Chapter 3: Biodiversity</li> </ul>

**Syllabus Pack Block 5 (week 24)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 24	<b>Chapter 3 Biodiversity</b> Revision of all topics and sub topics of the chapter <b>Objectives:</b> At the end of lesson, students will be able to: <ul style="list-style-type: none"> <li>discuss and explain the important concepts given in the chapters. answer all topic related questions of the chapters as required in board papers.</li> </ul>	<b>Explanation and Discussion:</b> <ul style="list-style-type: none"> <li>Discussion and Explanation of all important topics of the chapter as per students' need .</li> <li>Worksheets to be prepared by the teacher and given to be solved.</li> <li>Class tests to be taken from significant/important topics</li> </ul> <b>Written work:</b> Written practice of All topic related questions from exercise with practice of necessary figures and graphic organizers.	<ul style="list-style-type: none"> <li>Biology 9 PLD Publishers, Lahore</li> <li>Board</li> <li>Marker</li> </ul>

**Block 5: Computer Science Week 24**

Wks	Time line	Course Content Unit /Chapter/Topics
<b>Week 24</b>	Dec 07- Dec 12 (Revision)	<b>Revision of Chapter 6: Computer Networks</b> <ul style="list-style-type: none"> <li>• <b>Introduction to Networks</b></li> <li>• <b>Computer Network</b></li> <li>• <b>Uses of Networks</b> <ul style="list-style-type: none"> <li>▪ <b>Hardware Sharing</b></li> <li>▪ <b>Software Sharing</b></li> <li>▪ <b>File sharing</b></li> <li>▪ <b>Internet Sharing</b></li> </ul> </li> <li>• <b>Data Transmission Modes</b> <ul style="list-style-type: none"> <li>▪ <b>Simplex Transmission Mode</b></li> <li>▪ <b>Half-duplex Transmission Mode</b></li> <li>▪ <b>Full-duplex Transmission Mode</b></li> </ul> </li> <li>• <b>Network Architecture</b></li> <li>• <b>Type of Network Architecture</b> <ul style="list-style-type: none"> <li>▪ <b>Client/server Network</b></li> <li>▪ <b>Characteristics of Client/server Networks</b></li> <li>▪ <b>Peer-to-Peer Network</b></li> <li>▪ <b>Characteristics of Peer-to-Peer Networks</b></li> <li>▪ <b>Point-to-Point Networks</b></li> <li>▪ <b>Characteristics of Point-to-Point Networks</b></li> </ul> </li> <li>• <b>Types of Networks</b></li> <li>• <b>Types of networks based on geographical area</b> <ul style="list-style-type: none"> <li>▪ <b>Local Area Network(LAN)</b></li> <li>▪ <b>Characteristics of LAN</b></li> <li>▪ <b>Wide Area Network</b></li> <li>▪ <b>Characteristics of (WAN)</b></li> <li>▪ <b>Metropolitan Area Network (MAN)</b></li> <li>▪ <b>Characteristics of MAN</b></li> <li>▪ <b>Personal Area Network (PAN)</b></li> <li>▪ <b>Bluetooth Network</b></li> <li>▪ <b>Characteristics of Bluetooth Communication</b></li> </ul> </li> </ul>

<b>Wks</b>	<b>Time line</b>	<b>Course Content</b> Unit /Chapter/Topics
		<ul style="list-style-type: none"> <li>▪ Internet (international network).</li> <li>• Network Topology</li> <li>• Types of Network Topologies</li> <li>• Bus Topology               <ul style="list-style-type: none"> <li>▪ Advantages of Bus Topology</li> <li>▪ Limitations of Bus Topology</li> </ul> </li> <li>• Ring Topology               <ul style="list-style-type: none"> <li>▪ Advantages of Ring Topology</li> <li>▪ Limitations of Ring Topology</li> </ul> </li> <li>• Star Topology               <ul style="list-style-type: none"> <li>▪ Advantages of Star Topology</li> <li>▪ Limitations of Star Topology</li> </ul> </li> <li>• Mesh Topology               <ul style="list-style-type: none"> <li>▪ Advantages of Mesh Topology</li> <li>▪ Limitations of Mesh Topology</li> </ul> </li> <li>• Communications Over Networks</li> <li>• Communication via Telephone Networks               <ul style="list-style-type: none"> <li>▪ Dial-up line</li> <li>▪ DSL</li> <li>▪ ISDN</li> <li>▪ CDMA technology</li> </ul> </li> <li>• Types of Modems               <ul style="list-style-type: none"> <li>▪ Dial-up Modem</li> <li>▪ DSL Modem</li> <li>▪ ISDN Modem</li> </ul> </li> <li>• Comparison between Data Communication Lines               <ul style="list-style-type: none"> <li>▪ Dial-up line</li> <li>▪ DSL</li> <li>▪ ISDN</li> <li>▪ CDMA</li> </ul> </li> <li>▪ Related Questions at the end of Chapter</li> </ul>

Session (2020-2021)  
**Syllabus Pack Block 5 (week 24)**

Week	Topic/ Objectives	Study Guidelines	Resources
<p><b>Week 24 (Revision)</b></p>	<p><b>Chapter # 5: Computer Networks (Revision)</b></p> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Revise all concepts given on pg#140-157 regarding Fundamentals of Computer.</li> </ul>	<ul style="list-style-type: none"> <li>• Revise all important definitions and topics given in chapter.</li> <li>• Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google <b>about the Computer Networks.</b></li> <li>• Watch the topics(mentioned in block) related videos on sabaq.pk and e- learn.</li> <li>• Revise the concepts given in Ch#5(Computer Networks)</li> <li>• Revision with the help of worksheets. Worksheets consist of all types of questions that are asked in the Federal Board e.g MCQs, short questions, long questions etc.</li> <li>• Short &amp; long questions of worksheets further contain their respective types e.g Communication over networks etc.</li> <li>• Ask students to perform practically in the computer Lab</li> <li>• Revise the answers of relevant questions given at the end of chapter.</li> </ul>	<ul style="list-style-type: none"> <li>- Textbook of Computer Science Grade 9</li> <li>- National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 140-157</li> <li>- Exercise(MCQs Short Q/A, Long Q/A )</li> </ul> <p><b>Reference Links:</b></p> <ul style="list-style-type: none"> <li>- Watch the topic related videos on sabaq.pk</li> <li>Solve the practice test given with topics on sabaq.pk</li> </ul>

نصابی مواد باب / سبق / موضوعات	نام لائن	ہفتہ نمبر
باب سوم: موضوعاتی مطالعہ ☆ اللہ تعالیٰ اور اس کے رسول حضرت محمد خاتم النبیین ﷺ کی محبت اور اطاعت - دہرائی	07 دسمبر - 12 دسمبر	چوبیسواں ہفتہ

### سلیبس پیک بلاک-5 (چوبیسواں ہفتہ)

ذرائع	تدریسی ہدایات	موضوعات / مقاصد	ہفتہ نمبر
<ul style="list-style-type: none"> <li>اسلامیات لازمی (9-10)</li> <li>(ص: 59-61)</li> </ul>	<ul style="list-style-type: none"> <li>سبق اللہ تعالیٰ اور اس کے رسول ﷺ کی محبت و اطاعت طلباء جماعت ہشتم میں پڑھ چکے ہیں۔ لہذا امتحانات کی تیاری کو مد نظر رکھتے ہوئے، طلباء سبق کی اچھی طرح دہرائی کریں۔</li> <li>موضوعات سے متعلقہ آیات مع ترجمہ اچھی طرح سمجھ کر زبانی یاد کریں۔</li> <li>سبق میں بیان کردہ اہم موضوعات کو سمجھ کر اپنے الفاظ میں نوٹ بگس پر لکھیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات پر زبانی تبادلہ خیال کرتے ہوئے اچھی طرح دہرائی کی جائے تاکہ امتحانات کی تیاری مکمل ہو سکے، نیز عملی زندگی میں سبق میں بیان کردہ اہم نکات سے استفادہ حاصل کیا جاسکے۔</li> </ul>	<p>باب سوم: موضوعاتی مطالعہ ☆ اللہ تعالیٰ اور اس کے رسول ﷺ کی محبت و اطاعت - دہرائی</p> <p>طلباء قابل ہوں گے کہ:</p> <ul style="list-style-type: none"> <li>سبق کی اچھی طرح دہرائی کر سکیں۔</li> <li>سبق میں دی گئی آیات مبارکہ مع ترجمہ کی دہرائی کر سکیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات کی دہرائی کر سکیں۔</li> </ul>	چوبیسواں ہفتہ

**Block 5: Pakistan Studies Week 24**

# of wks	Time line	Course Content Unit /Chapter name
Week 24	Dec 07- Dec.12	<b>Chapter 2: Making of Pakistan</b> <ul style="list-style-type: none"><li>● Pakistan Resolution 1940</li><li>➤ Background of Pakistan Resolution</li><li>➤ Quaid –e- Azam’s Presidential address: 1940</li><li>➤ Text of the Pakistan Resolution</li><li>➤ Reaction to the resolution</li></ul>

نصابی مواد باب/سبق/موضوعات	ہفتہ	ہفتہ/دن
پہلا باب: مذاہب کا تعارف • مذہب سماج اور اخلاق (دہرائی)	چوبیسواں ہفتہ	دسمبر 07-دسمبر 12

سلیبس پیک بلاک-5 (چوبیسواں ہفتہ)

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر
☆ اخلاقیات (9-10) پنجاب ٹیکسٹ بک بورڈ لاہور صفحات: 6 تا 9 ☆ بورڈ مارکر	<ul style="list-style-type: none"> <li>• سبق " مذہب سماج اور اخلاق " پڑھی گئیں معلومات پر تبادلہ خیال کریں۔</li> <li>• تمام سبقی معلومات اور مشقی سوالات کی دہرائی کریں۔</li> </ul>	<p>پہلا باب: <u>مذاہب کا تعارف</u> <u>مذہب سماج اور اخلاق</u> طلباء اس قابل ہوں گے کہ: پڑھی گئیں تمام سبقی معلومات اور مشقی سوالات کا اعادہ کر سکیں۔</p>	چوبیسواں ہفتہ



Subject: English– IX  
**Block 5: English Week 25**

Session (2020-2021)

# of wks	Week Dates	Course Content Unit /Chapter/Topics
Week 25	14 Dec – 19 Dec	<ul style="list-style-type: none"> <li><b>Unit 11: Noise in the Environment</b></li> </ul> <p>Grammar – Transition devices – Adverb clauses Independent and dependent clause – Subordinating conjunctions</p> <ul style="list-style-type: none"> <li>Exercises – B, C, D, F, G</li> </ul>

**Syllabus Pack Block 5 (week 25)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 25	<p><b>Unit 11: Noise in the Environment</b></p> <p><b><u>Grammar</u></b></p> <ul style="list-style-type: none"> <li><b>Transitional devices</b></li> <li><b>Adverb Clause</b></li> <li><b>Independent and Dependent Clause</b></li> <li><b>Subordinating Conjunctions</b></li> </ul> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Identify &amp; use the transitional devices in the text</li> <li>analyze and use adverb clauses</li> <li>Differentiate between Independent &amp; Dependent Clause</li> </ul>	<ul style="list-style-type: none"> <li>Explain with examples how the Transitional Devices link / connect sentences and paragraphs together to maintain continuity of ideas. Refer textbook explanation on pg 117.</li> <li>Students to do Ex B (MCQs) in the textbook. Ex A may be given for H.W for reinforcement.</li> <li>Revise subordinating conjunctions prior to teach the concept of Adverb Clause. Write examples on the board and then let students find them in Ex C.</li> <li>Let students think &amp; complete the sentence starters in Ex D with suitable adverb clauses.</li> <li>With the help of a few sentences / activity, teach them the differentiation between Independent &amp; Dependent Clause.</li> <li>Ex F &amp; G to be done in registers after class discussion &amp; board work</li> </ul>	<ul style="list-style-type: none"> <li>English 9 pgs 117-120</li> </ul>

**Subject: English– IX**

**Session (2020-2021)**

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>



ذرائع	طریقہ تدریس	موضوعات/مقاصد	ہفتہ نمبر
☆ اردو برائے جماعت نہم ☆ صفحات ۷۵، ۷۶ ☆ اردو قواعد و انشاء 9-10 صفحہ نمبر ۲۴ ☆ بورڈ مارکر	طلباء جملہ اسمیہ اور جملہ فعلیہ پڑھ چکے ہیں اردو برائے جماعت نہم صفحات ۷۵، ۷۶، ۷۷ اردو قواعد و انشاء 10-9 صفحہ نمبر ۲۴ پر جملے کے اجزائے ترکیبی دیے گئے ہیں طلباء ان کو بغور پڑھیں اور دیے گئے جملوں کی ترکیبِ نحوی کریں۔ ● احمد نے سبق پڑھا ● طلباء نے کتابیں خریدیں ● بلبل گانا گاتی ہے ● قائد اعظم ہمارے قومی رہنما ہیں ● لاہور تاریخی شہر ہے ● آج موسم خوشگوار ہے	<u>جملے کے اجزائے ترکیبی</u> <u>جملہ اسمیہ، جملہ فعلیہ</u> طلباء اس قابل ہوں گے کہ: - اجملے کے اجزائے ترکیبی سے آگاہ ہو سکیں اور جملہ اسمیہ اور جملہ فعلیہ کی ترکیبِ نحوی کر سکیں	
☆ اردو برائے جماعت نہم ☆ صفحات ۹۵، ۹۶ ☆ بورڈ مارکر	طلباء اردو برائے جماعت نہم صفحات ۹۵ پر روزمرہ اور محاورے کی تعریف بغور کو پڑھیں اور یاد کریں۔ روزمرہ اور محاورے میں فرق کرتے ہوئے صفحات ۹۵، ۹۶ پر دیے گئے جملوں میں موجود اغلاط کی نشاندہی کریں۔	<u>روزمرہ اور محاورے کے لحاظ سے</u> <u>غلط فقرات کی درستی</u> طلباء اس قابل ہوں گے کہ: ۱- روزمرہ اور محاورے میں موجود فرق سے آگاہ ہو سکیں۔ ۲- جملوں میں موجود اغلاط کی نشاندہی کر سکیں۔	

**Block 5: Mathematics Week 25**

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 25	Dec 14 – Dec 19	<b>Unit 15: Pythagoras Theorem</b> 15.1 Pythagoras theorem Theorems 15.1.1 Exercise 15 Q1, Q3, Q4, Q6, Q7 ,Q8 Review Ex 15 Q1, Q2 <b>Unit 16: Theorems Related with Area</b> Exercise 16.1 Q2	

**Syllabus Pack Block 5 (week 25)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 25	<b>Unit 15</b> <b>Pythagoras Theorem</b> <ul style="list-style-type: none"> <li>15.1 Pythagoras theorem</li> <li>Theorems 15.1.1</li> <li>Exercise 15 Q1, Q3, Q4, Q6, Q7 ,Q8</li> <li>Review Ex 15 Q1, Q2</li> </ul> At the end of Unit 15 students will be able to: <ul style="list-style-type: none"> <li>Prove that in a right angled triangle, the square of the length of hypotenuse is equal to the sum of the squares of the lengths of the other two sides</li> <li>Comprehend that if the square of one side of a triangle is equal to the sum of the squares of the</li> </ul>	<p><i>*Teacher to briefly skim through the theorems that are not included in the reduced syllabus to build an understanding and relevance to the included concepts in complete context. However, the content that is included must be focused upon and made clear to the students</i></p> <ul style="list-style-type: none"> <li>Introduce Pythagoras theorem, its background and its application in real world with real life examples.</li> </ul> <p><b><u>Theorem 15.1: Pythagoras theorem pgs.238-240</u></b>  <b>In a right angled triangle, the square of the length of hypotenuse is equal to the sum of the squares of the lengths of the other two sides</b></p> <ul style="list-style-type: none"> <li>Ask the students to go through the statement of the theorem and discuss with them the conditions which are 'given' and what' to prove'.</li> <li>Draw the figure and construction from pg. 238 on board and then explain the steps logically to the students as given on pgs. 239-240.</li> <li>Introduce the properties of the similar Triangles.</li> <li>Students will solve this theorem in their notebooks and</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics 9 (Science Group) by Caravan Book House, Lahore</li> <li>Laptop / Tab / Smart Phone</li> <li>Watch the relevant videos on <a href="http://www.sabaq.pk">www.sabaq.pk</a></li> </ul>

Week	Topic/ Objectives	Study Guidelines	Resources
	<p>other two sides, then triangle is a right angled triangle</p> <ul style="list-style-type: none"> <li>• Solve relevant exercise questions</li> </ul> <p><b>Unit 16</b> <b>Theorems Related with Area</b></p> <p>Exercise 16.1 Q2</p> <p>At the end of Unit 16 students will be able to:</p> <ul style="list-style-type: none"> <li>• Comprehend that parallelogram on the same base and lying between the same parallel lines are equal in area</li> <li>• Comprehend that parallelograms on equal bases and having the same altitude are equal in area</li> <li>• Solve the relevant exercise questions</li> </ul>	<p>then as HW.</p> <ul style="list-style-type: none"> <li>• Solve the relevant 15 Q1, Q3, Q4, Q6, Q7, Q8 from Ex 15 and Q1, Q2 Review Ex 15.</li> <li>• Briefly skim through the theorems 16.1.1 and 16.1.2 to build a basic understanding of the entailed concept.</li> <li>• Solve Q2 of Ex 16.1 and the same maybe given as HW.</li> </ul>	

**Block 5: Physics Week 25**

<b>Wks</b>	<b>Time line</b>	<b>Course Content</b> Unit /Chapter/Topics
<b>Week 25</b>	Dec 14 – Dec 19	<b>Need based Revision</b>  Unit 2 “Kinematics”

**Syllabus Pack Block 5 (week 25)**

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
<b>Week 25</b>	<p style="text-align: center;"><b>Need based Revision</b></p> <p><b>Students will go through a thorough interactive discussion/ problem solving and revision session for Unit 2 “Kinematics” along the lines of exam preparation (focused and limited to the content given in the reduced syllabus i.e.</b></p> <p>All theory topics 2.1- 2.7 and examples 2.1-2.7, 2.10 are included.</p>		

**Block 5: Chemistry Week 25**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 25	Dec 14-Dec 19	<b>Chapter 8</b> <b>CHEMICAL REACTIVITY</b> <ul style="list-style-type: none"> <li>• Ionization Energies Of Alkali Metals And Alkaline Earth Metals</li> <li>• Some Important Alkali Metals and Alkaline Earth Metals</li> <li>• Activity 8.1</li> <li>• Inertness Of Noble Metals</li> <li>• Importance Of Silver, Gold And Platinum</li> <li>• Topic related exercise Questions</li> </ul>

**Syllabus Pack Block 5 (week 25)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 25	<p align="center"><b>Chapter 8</b> <b>CHEMICAL REACTIVITY</b></p> <p>8.1.3 Inertness Of Noble Metals</p> <p>8.1.4: Importance Of Silver, Gold And Platinum</p> <p>➤ <b>Topic related exercise Questions</b></p> <p><b>Objectives:</b> <b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• describe the inertness of noble metals</li> <li>• discuss the utility of noble metals in daily life.</li> <li>• explain the importance of</li> </ul>	<p><b>Explanation and Discussion:</b> <b>The Teacher will</b></p> <ul style="list-style-type: none"> <li>• introduce to the topic of “Noble Metals”</li> <li>• guide students to identify noble metals in periodic table</li> <li>• discuss the inertness of noble metals and their utility in daily life.</li> <li>• discuss the properties of copper, silver and gold for which they are used as jewelry and coins for millennia</li> <li>• guide Students to do Self-assessment exercise 8.3</li> <li>• Students under teacher guidance to perform the activity 8.1 on page 158 in the lab</li> </ul> <p><b>Reference Links:</b>  <a href="https://en.wikipedia.org/wiki/Noble_metal">https://en.wikipedia.org/wiki/Noble_metal</a>  <a href="http://www.thoughtco.com/introduction-to-noble-metals">www.thoughtco.com/introduction-to-noble-metals</a></p> <p><b>Written work:</b> Written practice of all topic related objective &amp;</p>	<ul style="list-style-type: none"> <li>• Textbook of Chemistry Grade 9 National Book Foundation as Federal Textbook Board-Islamabad</li> <li>• Board</li> <li>• Marker</li> </ul>



**Subject: Chemistry– IX****Session (2020-2021)**

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
	coinage metals <ul style="list-style-type: none"><li>• understand the importance of radio isotopes in life</li><li>• identify karat system and its utility</li><li>• explain the composition of breathing mixture in the equipments</li><li>• solve relevant exercise questions independently</li></ul>	subjective Questions of Exercise and Think Tank	

Subject: Biology– IX  
**Block 5: Biology Week 25**

Session (2020-2021)

Wks	Time line	Course Content Unit /Chapter/Topics
Week 25	Dec 14-Dec 19	Revision of <ul style="list-style-type: none"> <li>Chapter 4: Cells and Tissues</li> </ul>

**Syllabus Pack Block 5 (week 25)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 25	<p><b>Chapter 4</b>  <b>Cells and Tissues</b>            Revision of all topics and sub topics of the chapter as per reduced syllabus by FBISE</p> <p><b><u>Practical:</u></b>            Examination under the microscope an animal cell (e.g. from frog’s blood) and a plant cell (e.g. from onion epidermis), using an appropriate temporary staining technique, such as iodine or methylene blue</p> <p><b><u>Objectives:</u></b>            At the end of week,            Students will be able to:</p> <ul style="list-style-type: none"> <li>discuss and explain the important concepts given in the chapters.</li> <li>answer all topic related questions of the chapters as required in board papers.</li> </ul>	<p><b><u>Explanation and Discussion:</u></b></p> <ul style="list-style-type: none"> <li>Discussion and Explanation of all important topics of the chapter as per students’ need .</li> <li>Worksheets to be prepared by the teacher and given to the students to be solved.</li> <li>Class tests to be taken from significant/important topics</li> </ul> <p><b><u>Written work:</u></b>            Written practice of all topic related questions from exercise with practice of necessary figures and graphic organizers.</p> <p><b><u>Practical</u></b>            Demonstration of the practical work by the teacher followed by the guided practice by students</p>	<ul style="list-style-type: none"> <li>Biology 9              PLD Publishers,              Lahore</li> <li>Board</li> <li>Marker</li> </ul>

**Block 5: Computer Science Week 25**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 25	Dec 14- Dec 19 (Revision)	<b>Revision of Chapter 6: Computer security and ethics</b> <ul style="list-style-type: none"> <li>• Computer Security</li> <li>• Computer Viruses</li> <li>• Authentication Mechanisms</li> <li>• Authentication Methodologies</li> <li>• Computer Ethics</li> </ul> <b>Related Questions at the end of Chapter</b>

**Syllabus Pack Block 5 (week 25)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 25 (Revision)	<b>Chapter # 6: Computer Security and Ethics (Revision)</b>  Students will be able to: <ul style="list-style-type: none"> <li>• Revise all concepts given on pg#158-172 regarding Fundamentals of Computer.</li> </ul>	<ul style="list-style-type: none"> <li>• Revise all important definitions and topics given in chapter.</li> <li>• Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google <b>about the Computer Security and Ethics.</b></li> <li>• Watch the topics(mentioned in block) related videos on sabaq.pk and e learn.</li> <li>• Revise the concepts given in Ch#6(Computer Security and Ethics)</li> <li>• Revision with the help of worksheets. Worksheets consist of all types of questions that are asked in the Federal Board e.g MCQs, short questions, long questions etc.</li> <li>• Short &amp; long questions of worksheets further contain their respective types e.g Computer virus, Authentication Mechanism computer ethics etc.</li> <li>• Ask students to perform practically in the Computer Lab</li> <li>• Revise the answers of relevant questions given at the end of chapter.</li> </ul>	<ul style="list-style-type: none"> <li>– Textbook of Computer Science Grade 9</li> <li>– National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 158-172</li> <li>– Exercise(MCQs Short Q/A, Long Q/A )</li> </ul> <b>Reference Links:</b> <ul style="list-style-type: none"> <li>– Watch the topic related videos on sabaq.pk</li> <li>Solve the practice test given with topics on sabaq.pk</li> </ul>

بلاک-5 (اسلامیات) پیچیسواں ہفتہ

نصابی مواد باب / سبق / موضوعات	ٹائم لائن	ہفتہ نمبر
باب سوم: موضوعاتی مطالعہ ☆ علم کی فرضیت اور فضیلت - دہرائی	14 دسمبر - 19 دسمبر	پیچیسواں ہفتہ

سلیبس پیک بلاک-5 (پیچیسواں ہفتہ)

ذرائع	تدریسی ہدایات	موضوعات / مقاصد	ہفتہ نمبر
<ul style="list-style-type: none"> <li>اسلامیات لازمی (9-10)</li> <li>(ص: 62-64)</li> </ul>	<ul style="list-style-type: none"> <li>سبق علم کی فرضیت اور فضیلت طلبا پڑھ چکے ہیں۔ لہذا امتحانات کی تیاری کو مد نظر رکھتے ہوئے، طلبا سبق کی اچھی طرح دہرائی کریں۔</li> <li>موضوعات سے متعلقہ آیات مع ترجمہ اچھی طرح سمجھ کر زبانی یاد کریں۔</li> <li>سبق میں بیان کردہ اہم موضوعات کو سمجھ کر اپنے الفاظ میں نوٹ لکھیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات پر زبانی تبادلہ خیال کرتے ہوئے اچھی طرح دہرائی کی جائے تاکہ امتحانات کی تیاری مکمل ہو سکے، نیز عملی زندگی میں سبق میں بیان کردہ اہم نکات سے استفادہ حاصل کیا جاسکے۔</li> </ul>	<p>باب سوم: موضوعاتی مطالعہ ☆ علم کی فرضیت اور فضیلت - دہرائی</p> <p>طلبا اس قابل ہوں گے کہ:</p> <ul style="list-style-type: none"> <li>سبق کی اچھی طرح دہرائی کر سکیں۔</li> <li>سبق میں دی گئی آیات مبارکہ مع ترجمہ کی دہرائی کر سکیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات کی دہرائی کر سکیں۔</li> </ul>	پیچیسواں ہفتہ

**Block 5: Pakistan Studies Week 25**

# of wks	Time line	Course Content Unit /Chapter name
<b>Week 25</b>	Dec14 – Dec 19	<b>Chapter 2: Making of Pakistan</b> <ul style="list-style-type: none"><li>• Jinnah - Gandhi Talks, 1944</li><li>• The Cabinet Mission Plan 1946<ul style="list-style-type: none"><li>➤ Talks with different political leaders</li><li>➤ Proposal of Cabinet Mission</li></ul></li><li>• Reactions of the Political Parties to the Cabinet Mission</li></ul>

ہفتہ	ہفتے/دن	نصابی مواد باب/سبق/موضوعات
پیپسواں ہفتہ	دسمبر 14- دسمبر 19	تیسرا باب: اخلاق و اقدار • خدا کی عظمت (دہرائی)

### سلیبس پیک بلاک-5 (پیپسواں ہفتہ)

ہفتہ نمبر	موضوعات/مقاصد	تدریسی ہدایات	ذرائع
پیپسواں ہفتہ	تیسرا باب: اخلاق و اقدار خدا کی عظمت طلباء اس قابل ہوں گے کہ: 1- پڑھی گئیں تمام سبقی معلومات اور مشقی سوالات کا اعادہ کر سکیں۔	• سبق "خدا کی عظمت" میں پڑھی گئی تمام سبقی معلومات پر تبادلہ خیال کریں۔ • تمام سبقی معلومات اور مشقی سوالات کی دہرائی کریں۔	☆ اخلاقیات (9-10) پنجاب ٹیکسٹ بک بورڈ لاہور صفحات: 30 تا 32 ☆ بورڈ مارکر

Subject: English– IX  
**Block 5: English Week 26**

Session (2020-2021)

# of wks	Week Dates	Course Content Unit /Chapter/Topics
Week 26	21 Dec – 24 Dec	<ul style="list-style-type: none"> <li>• <b>Paragraph Writing</b> How to keep our town clean?</li> <li>• <b>Dialogue Writing</b> Between a teacher &amp; a student</li> </ul>

**Syllabus Pack Block 5 (week 26)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 26	<ul style="list-style-type: none"> <li>• <b>Paragraph Writing</b> How to keep our town clean?</li> </ul>	<ul style="list-style-type: none"> <li>• Write a few golden truths such as: 'Cleanliness is next to Godliness'. 'God loves people who practice purity and cleanliness' to initiate discussion on the topic.</li> <li>• Ask brainstorming Qs for ideas:               <ol style="list-style-type: none"> <li>1. What does a clean town &amp; a dirty town represent?</li> <li>2. Think of ways to keep the town clean.</li> <li>3. Effects / results of polluted environment vs. cleanliness on persons' life, surrounding &amp; society</li> <li>4. What is the individual &amp; collective responsibility?</li> <li>5. How to develop civic sense?</li> </ol> </li> <li>• Students to write a paragraph on the given topic.</li> <li>• An awareness campaign may be launched in</li> </ul>	<ul style="list-style-type: none"> <li>• Board</li> </ul>

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
		suitable circumstances.	



نصابی مواد موضوع: سبق / نظم / غزل کا نام	ہفتے / دن	ہفتے
دہرائی: کاہلی مکالمہ نگاری	۲۱ دسمبر - ۲۴ دسمبر	چھبیسواں ہفتہ

### سلیبس پیک بلاک 5 (چھبیسواں ہفتہ)

ذرائع	طریقہ تدریس	موضوعات / مقاصد	ہفتہ نمبر
☆ اردو برائے جماعت نہم ☆ صفحات ۱۹ تا ۱۵ ☆ بورڈ مارکر	☆ امت مسلمہ کے زوال کی ایک بڑی اور اہم وجہ کاہلی و سستی اور آرام طلبی تھی۔ ☆ طلباء سبق کی پڑھائی کرتے ہوئے کاہلی کے درست معنی و مفہوم کو سمجھیں۔ ☆ مشکل الفاظ کے معانی، مشتقی سوالات اور تشریح کا اعادہ کیا جائے۔ ☆ کسی ایک پیرا گراف کی تشریح مندرجہ ذیل نکات کی مدد سے کریں۔ ☆ تشریح کرتے ہوئے گذشتہ جماعتوں میں پڑھی گئیں نظمیں کو شش و محنت اور کاہلی کے اشعار کو بطور حوالہ جات استعمال کیا جاسکتا ہے۔ • سبق کا نام ----- کاہلی • مصنف کا نام ----- سر سید احمد خان • سیاق و اسباق • حل لغت ----- • تشریح	دہرائی کاہلی طلباء اس قابل ہوں گے کہ: ۱۔ سبق کی پڑھائی اور الفاظ معانی، مشتقی سوالات کے جوابات اور نثر پارے کی تشریح کا اعادہ کر سکیں۔	چھبیسواں ہفتہ
	نثر پارے کی تشریح کا طریقہ طلباء کو بتا دیا گیا تھا اسی طریقے کو مد نظر رکھ کر کسی ایک پیرا گراف کی تشریح کریں۔		

ذرائع	طریقہ تدریس	موضوعات / مقاصد	ہفتہ نمبر
	<p>آپ کا دوست کاہل اور سست ہے اسے کاہلی اور سستی کے نقصانات اور کاہلی اور سستی سے بچنے کی تجاویز بتائیں ہونے والی گفتگو کو مکالماتی انداز میں قلمبند کریں۔</p> <p>طلباء گذشتہ جماعتوں میں مکالمہ نگاری کرتے آئے ہیں انہی اصولوں کی روشنی میں دیے گئے موضوع پر مکالمہ تحریر کریں</p>	<p><u>مکالمہ نگاری</u>          طلباء اس قابل ہوں گے کہ:          ۱۔ مکالمہ نگاری کے اصول و ضوابط کو مد نظر رکھتے ہوئے دیے گئے موضوع پر مکالمہ تحریر کریں۔</p>	

**Block 5: Mathematics Week 26**

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 26	Dec 21 – Dec 24	<b>Need based Revision</b> Unit 1 Matrices and Determinants Unit 2 Real and Complex Numbers	

**Syllabus Pack Block 5 (week 26)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 26	<p style="text-align: center;"><b>Need based Revision</b></p> <p><b>Students will go through a thorough interactive discussion/ problem solving and revision session for Chapters 1 and 2 along the lines of exam preparation (focused and limited to the content given in the reduced syllabus i.e.</b></p> <p><b>Unit 1 Matrices and Determinants</b>            Exercise 1.1 Q1; Q2; Q3            Exercise 1.2 Q1; Q2; Q3; Q5; Q6            Exercise 1.3 Q1; Q2; Q5(i, v, vi, ix, x); Q6; Q7; Q8(i, ii, iii, iv)            Exercise 1.4 Q1; Q2; Q3; Q5; Q6            Exercise 1.5 Q1(i, ii); Q2(i, ii); Q3(iii, iv); Q4            Exercise 1.6 Q1(i, iii, v, vii); Q2; Q4            Review Ex 1 Q1</p> <p><b>Unit 2 Real and Complex Numbers</b>            Exercise 2.1 Q3; Q4(i, ii, iii); Q6(i, ii)            Exercise 2.2 Q1; Q3            Exercise 2.3 Q1(i, ii); Q3(i, ii)            Exercise 2.4 Q1(i, iv); Q2; Q3(i, ii)            Exercise 2.5 Q1(i, ii, iv); Q2(i, ii, iii); Q3(iv, v); Q4            Exercise 2.6 Q1; Q2(ii, iv); Q3(ii, iv); Q4(i, iv, v); Q5(ii, iii); Q6(i, iii, iv, v); Q7(i, ii)            Review Ex 2 Q1; Q2; Q5; Q7</p>		

**Block 5: Physics Week 26**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 26	Dec 21 – Dec 24	Need based Revision Unit 3 “Dynamics”

**Syllabus Pack Block 5 (week 26)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 26	<p style="text-align: center;"><b>Need based Revision</b></p> <p><b>Students will go through a thorough interactive discussion/ problem solving and revision session for Unit 3 “Dynamics” along the lines of exam preparation (focused and limited to the content given in the reduced syllabus i.e.</b></p> <p>3.1 : Force, Inertia and Momentum</p> <p>3.2 : Newton’s Laws of Motion (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, mass and weight, Force and Momentum, Law of Conservation of momentum only)</p> <p>3.3 : Friction (Rolling Friction, Advantages / disadvantages of Friction, methods to reduce friction only)</p> <p>3.4 : Uniform circular motion (Centripetal force and centrifugal force only)</p> <p>Relevant Exercise Questions should be reinforced by discussion followed by written practice</p>		

**Block 5: Chemistry Week 26**

Wks	Time line	Course Content Unit /Chapter/Topics
Week 26	Dec 21-Dec 24	<b>Chapter 8</b> <b>CHEMICAL REACTIVITY</b> <ul style="list-style-type: none"> <li>• Non-Metals</li> <li>• Electronegative character</li> <li>• Comparison of reactivity of the halogens</li> <li>• Activity 8.3</li> <li>• Topic related exercise Questions</li> </ul>

**Syllabus Pack Block 5 (week 26)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 26	<b>Chapter 8</b> <b>CHEMICAL REACTIVITY</b> <ul style="list-style-type: none"> <li>➤ Non-Metals</li> <li>➤ Electronegative character</li> <li>➤ Example 8.2</li> <li>➤ Self-Assessment exercise 8.3</li> <li>➤ Activity 8.2 on pages 158,159</li> <li>➤ Comparison of reactivity of the halogens</li> <li>➤ Self-Assessment exercise 8.4</li> <li>➤ Activity 8.3 on pgs 159,160</li> <li>➤ <b>Topic related exercise Questions</b></li> </ul>	<b>Explanation and Discussion:</b> <b>The Teacher will:</b> <ul style="list-style-type: none"> <li>• introduce non-metals and discuss their position in the periodic table with the help of fig.8.3 from Textbook</li> <li>• explain the electronegative character of non-metals and its periodicity</li> <li>• discuss acidic nature of non-metals.</li> <li>• Compare the nature and characteristics properties of metals with non-metals</li> <li>• Read and explain Example 8.1 from Textbook and involve students in the problem solving strategy to do the example.</li> <li>• discuss the nature, properties and behaviour of halogens</li> <li>• explain the reactivity of halogens and its periodicity with the help of chemical reactions from textbook.</li> <li>• compare the acidic strength of halides</li> <li>• compare the oxidizing power of halogens.</li> </ul>	<ul style="list-style-type: none"> <li>• Textbook of Chemistry Grade 9 National Book Foundation as Federal Textbook Board-Islamabad</li> <li>• Board</li> <li>• Marker</li> </ul>

Week	Topic/ Objectives	Study Guidelines	Resources
	<p><b><u>Objectives:</u></b>  <b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• define non-metals.</li> <li>• explain physical and chemical properties of non-metals</li> <li>• experimentally compare the reactivity of non-metals</li> <li>• compare general characters, reactivity and nature of metals with non-metals</li> <li>• explain the electronegative character of non-metals.</li> <li>• Identify halogens</li> <li>• analyze the nature and reactivity of the halogens</li> <li>• compare the acidic strength of halides and their oxidizing power.</li> <li>• solve relevant exercise questions independently</li> </ul>	<ul style="list-style-type: none"> <li>• guide students to do Self-assessment exercises from Textbook</li> </ul> <p><b><u>Written work:(C.W):</u></b> Topic related objectives &amp; subjective Questions from exercise and Think Tank</p> <p><b><u>Reference Links:</u></b></p> <ul style="list-style-type: none"> <li>• <a href="https://en.wikipedia.org/wiki/Nonmetal">https://en.wikipedia.org/wiki/Nonmetal</a></li> <li>• <a href="https://www.britannica.com/science/nonmetal">https://www.britannica.com/science/nonmetal</a></li> <li>• <a href="https://www.thoughtco.com">https://www.thoughtco.com</a> › ... › Science › Chemistry › Periodic Table</li> <li>• <a href="https://www.bbc.com/education/guides/zdq6cwx/revision/3">https://www.bbc.com/education/guides/zdq6cwx/revision/3</a></li> <li>• <a href="https://www.britannica.com/science/halogen-element">https://www.britannica.com/science/halogen-element</a></li> </ul>	

Subject: Biology– IX  
**Block 5: Biology Week 26**

Session (2020-2021)

Wks	Time line	Course Content Unit /Chapter/Topics
Week 26	Dec 21-Dec 24	Revision of <ul style="list-style-type: none"> <li>Chapter 5: Cell Cycle</li> </ul>

**Syllabus Pack Block 5 (week 26)**

Week	Topic/ Objectives	Study Guidelines	Resources
Week 26	<p><b>Chapter 5</b>  <b>Cell Cycle</b>            Revision of all topics and sub topics of the chapter as per reduced syllabus by FBISE</p> <p><b><u>Objectives:</u></b>            At the end of week,            Students will be able to:</p> <ul style="list-style-type: none"> <li>discuss and explain the important concepts given in the chapters.</li> <li>answer all topic related questions of the chapters as required in board papers.</li> </ul>	<p><b><u>Explanation and Discussion:</u></b></p> <ul style="list-style-type: none"> <li>Discussion and Explanation of all important topics of the chapter as per students' need .</li> <li>Worksheets to be prepared by the teacher and given to be solved.</li> <li>Class tests to be taken from significant/important topics</li> </ul> <p><b><u>Written work:</u></b>            Written practice of all topic related questions from exercise with practice of necessary figures and graphic organizers.</p>	-

Subject: Computer Science– IX

Session (2020-2021)

**Block 5: Computer Science Week 26**

<b>Wks</b>	<b>Time line</b>	<b>Course Content</b> Unit /Chapter/Topics
<b>Week 26</b>	Dec 21- Dec 24	<b>Need based Revision</b>

**Syllabus Pack Block 5 (week 26)**

<b>Week</b>	<b>Topic/ Objectives</b>	<b>Study Guidelines</b>	<b>Resources</b>
<b>Week 26 (Revision)</b>		<b>Need based Revision</b>	



بلاک-5 (اسلامیات) چھبیسواں ہفتہ

ہفتہ نمبر	ٹائم لائن	نصابی مواد باب / سبق / موضوعات
چھبیسواں ہفتہ	21 دسمبر - 24 دسمبر	باب سوم: موضوعاتی مطالعہ ☆ زکوٰۃ (فرضیت، اہمیت اور مصارف) - دہرائی

سلیبس پیک بلاک-5 (چھبیسواں ہفتہ)

ہفتہ نمبر	موضوعات / مقاصد	تدریسی ہدایات	ذرائع
چھبیسواں ہفتہ	<p>باب سوم: موضوعاتی مطالعہ ☆ زکوٰۃ (فرضیت، اہمیت اور مصارف) - دہرائی</p> <p>طلباء اس قابل ہوں گے کہ:</p> <ul style="list-style-type: none"> <li>سبق کی اچھی طرح دہرائی کر سکیں۔</li> <li>سبق میں دی گئی آیات مبارکہ مع ترجمہ کی دہرائی کر سکیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات کی دہرائی کر سکیں۔</li> </ul>	<ul style="list-style-type: none"> <li>سبق زکوٰۃ (فرضیت، اہمیت اور مصارف) طلبا پڑھ چکے ہیں۔ لہذا امتحانات کی تیاری کو مد نظر رکھتے ہوئے، طلبا سبق کی اچھی طرح دہرائی کریں۔</li> <li>موضوعات سے متعلقہ آیات مع ترجمہ اچھی طرح سمجھ کر زبانی یاد کریں۔</li> <li>سبق میں بیان کردہ اہم موضوعات کو سمجھ کر اپنے الفاظ میں نوٹ بگس پر لکھیں۔</li> <li>سبق کی روشنی میں مشقی سوالات کے جوابات پر زبانی تبادلہ خیال کرتے ہوئے اچھی طرح دہرائی کی جائے تاکہ امتحانات کی تیاری مکمل ہو سکے، نیز عملی زندگی میں سبق میں بیان کردہ اہم نکات سے استفادہ حاصل کیا جاسکے۔</li> </ul>	<ul style="list-style-type: none"> <li>اسلامیات لازمی (9-10)</li> <li>(ص: 65-66)</li> </ul>

**Block 5: Pakistan Studies Week 26**

# of wks	Time line	Course Content Unit /Chapter name
<b>Week 26</b>	Dec 21- Dec 24	<b>Chapter 2 : Making of Pakistan</b> <ul style="list-style-type: none"><li>• Interim Government 1946-47</li><li>• 3rd June Plan 1947</li><li>• Quai-e- Azam’s role in the making of Pakistan</li><li>• Services rendered by Quaid-e-Azam</li></ul>

ہفتہ	ہفتے/دن	نصابی مواد باب/سبق/موضوعات
چھبیسواں ہفتہ	دسمبر 21 - دسمبر 24	تیسرا باب: اخلاق و اقدار • عبادت گاہیں اور نظام ہائے عبادت انسانی رویوں پر اثرات (دہرائی)

سلیبس پیک بلاک-5 (چھبیسواں ہفتہ)

ہفتہ نمبر	موضوعات/مقاصد	تدریسی ہدایات	ذرائع
چھبیسواں ہفتہ	تیسرا باب: اخلاق و اقدار عبادت گاہیں اور نظام ہائے عبادت انسانی رویوں پر اثرات طلباء اس قابل ہوں گے کہ: 1. پڑھی گئیں تمام سبقی معلومات اور مشقی سوالات کا اعادہ کر سکیں۔	• سبق " عبادت گاہیں اور نظام ہائے عبادت انسانی رویوں پر اثرات " میں دی گئیں تمام سبقی معلومات پر تبادلہ خیال کریں۔ • سبق اور مشقی سوالات کی دہرائی کریں۔	☆ اخلاقیات (9-10) پنجاب ٹیکسٹ بک بورڈ لاہور صفحات: 33 تا 42 ☆ بورڈ مارکر