



**APSACS HSSC Syllabus Pack
Class XI
Cold & Warm Region
2020-21**

Army Public Schools & Colleges System Secretariat

Academic Calendar 2020-2021

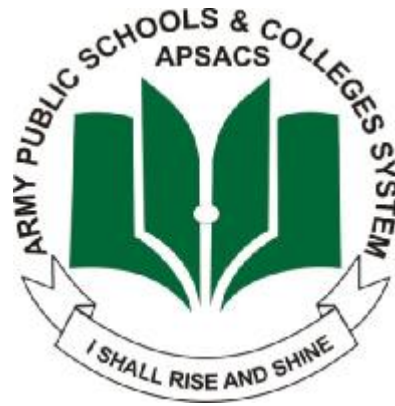
APSACS Syllabus Pack (5 Blocks- 29 Weeks Study Time)

- 80% Course to be covered in Block 1-4 :
 - ü HSSC I: 22 weeks (29 Jun-28 Nov 2020)
 - ü HSSC II: 22 weeks (29 Jun-28th Nov 2020)
- Remaining 20% course content to be covered in Block 5 (07 weeks)
- Revision & Prep Test Series Block (5 weeks)
- Note: Subject Teachers will take tests to ensure students' revision and preparation according to the board paper pattern for final exams

Week No	Week dates	Events XI Wef Jun 29,2020
Block I:		
HSSC I : 05 study weeks		
1.	Jun 29- July 04	Study weeks
2.	06– Jul 11	- do-
3.	Jul 13 – Jul 18	- do-
4.	Jul 20 – Jul 25	- do-
5.	Jul 27– Jul 30	- do- (4 working days) Eid- ul- Azha Holidays (31 July - 02 Aug)
Block 2 (06 study weeks)		
6.	Aug 03 - Aug 08	Study weeks
7.	Aug10 - Aug15	- do- Independence day Holiday(14 Aug)
8.	Aug17 - Aug 22	- do-
9.	Aug 24 – Aug 29	- do- Ashura Holidays (28-29 Aug)
10.	Aug 31 – Sep 05	- do-
11.	Sep 07 - Sep12	- do-
Block 3 (06 study weeks)		
12.	Sep 14 – Sept 19	Study weeks
13.	Sep 21 - Sep 26	- do-
14.	Sep 28 - Oct 03	- do-
15.	Oct 05 - Oct 10	- do-
16.	Oct 12 – Oct 17	- do-
17.	Oct 19 – Oct 24	- do-

Block 4 (06 weeks – 4 study weeks,01 Revision week,01 Assessment week)		
18.	Oct 26 – Oct 31	Study weeks Eid- Milad -un- Nabi (Oct 29)
19.	Nov 02 – Nov 07	- do-
20.	Nov 09 – Nov 14	- do-
21.	Nov 16 – Nov 21	- do-
22.	Nov 23 – Nov 28	Revision week
23.	Nov 30-Dec 05 (6 days)	Assessments before sending students names for admission in FBISE Exams
Block 5 (07 study Weeks)		
24	Dec 07-Dec 12	Study weeks
25	Dec 14-Dec 19	- do-
26.	Dec 21-Dec 24	- do- Dec 25 Holiday
Winter Break: 25 Dec – 03 Jan 2021		
27.	Jan 6- Jan 2021	- do-
28.	Jan 11- Jan 16	- do-
29.	Jan 18- Jan 23	- do-
30.	Jan 25- Jan 30	- do-
Revision & Prep Test Series (5 weeks)		
31.	01Feb-06Feb	Prep Test Series Kashmir Day (Feb 05)
32.	08Feb-13Feb	- do-
33.	15Feb-20Feb	- do-
34.	22Feb-27Feb	- do-
35.	01Mar-06Mar	- do-
36.	Mar 08 onwards	Students need based preparation for Board Exams (Students of HSSC II will also practice PETS for admission in professional colleges)
	Apr 12 onwards	Board Exams

Note: Pre board exams on Schools discretion



APSACS HSSC Syllabus Pack

Class XI

Block 1 (Week1-5)

**APSACS Syllabus Pack HSSC XI
Cold & Warm Region
2020-2021**

English

Resources	Timeline for Session 2020 - 2021	
<p>Prescribed Textbook English Grade XI (Khyber Pakhtunkhwa Textbook Board Peshawar)</p> <p>Resources:</p> <ul style="list-style-type: none"> · English Simple Grammar and Composition Complete Edition Intermediate (Part 1) by Prof Zia-ur-Rahman Khan (27th Edition , 2015) · High School English Grammar & Composition Multicolour Edition by Wren & Martin (2016) <p>Prescribed Notebook: Single-lined notebook (large)/ Register</p>	Weeks / Days	Class XI
	Time available	35wks
	Study Time	29wks
	School Assessments	06 days
	Winter Break	10 days
	Syllabus completion + Revision + Test Series	05wks
	Federal Board Examination	

Instructions

- 1. All the work in study pack is syllabus oriented, focusing on comprehensive study of course content supported by suggested tutorials & written assignments.**
- 2. Calculated study time for first five weeks (Block 1) of English is 18 hours & 30 minutes. Students to make a timetable for the assigned weekly work, spreading over 5/6 days a week according to the given study hours.**
- 3. Parents to monitor their child's progress weekly by ticking off the checklist for finished task or maintaining a record of submission of assignments per subject / week.**
- 4. Written Practice of the assigned tasks will be done on loose sheets/ notebooks/registers. Maintain the completed work in a folder, using separators for weekly assignments.**
- 5. Assignments to be regularly submitted to schools using e medium or hard copies according to procedure & schedule issued by the School. The school teachers remain available online from 8.00 to 2.00 to provide support to those who require assistance.**
- 6. Once the regular school starts, students will identify the concepts for which they need extra reinforcement & explanation. Hence, it is mandatory for the students to complete the Study Packs during stay home period.**
- 7. The checklist for the Study Pack will be filled by the students every week for monitoring self-study time.**

Subject: English– XI
Block 1: English Week 1

Session (2020-2021)

# of wks / Study Hours	Week Dates	Course Content Unit /Chapter/Topics	Checklist Complete or Incomplete
Week 1 3 hrs 30 mins	June 29 – July 04	<ul style="list-style-type: none"> • Orientation of FBISE Syllabus & Paper Pattern • Unit 1: First Attempts & Challenges Reading Selection: 1.1 His First Flight (story) by Liam O'Flaherty • Applied Grammar Parts of Speech <ol style="list-style-type: none"> 1. Noun 2. Pronoun 	

Syllabus Pack Block 1 (week 1)

Week / Study Hours	Topics / Objectives	Study Guidelines	Resources
Week 1 3 hrs 30 mins	<p>Orientation of FBISE Syllabus & Paper Pattern Note:</p> <ul style="list-style-type: none"> • Students to download English Compulsory paper from the official website of FBISE • Conduct study of prescribed textbooks/reference books/ exam syllabus/ paper pattern 	<ul style="list-style-type: none"> • Tap the Federal Board official website to download the syllabus & Model Paper. https://www.fbise.edu.pk/syllabusHSSC-I.php • Study the Syllabus content. Notice that there are four sections in the textbook containing lessons, • Units1-5: Stories / Essays / Poems • Unit 6: Learning to Communicate • Unit 7: Visiting the Dentist • Unit 8: One-Act play <p>Note: 05 Phrasal Verbs will be practiced by the students on a daily basis.</p>	<ul style="list-style-type: none"> • English Textbook Grade XI (KPTBP) • High School English Grammar & Composition Multicolour Edition by Wren & Martin (2016 Edition) • English Simple Grammar & Composition Complete Edition Part I Intermediate by Prof. Zia-ur-Rahman Khan • Model Paper FBISE

Week / Study Hours	Topics / Objectives	Study Guidelines	Resources
	<p>Unit 1: First Attempts & Challenges Reading Selection: 1.1 His First Flight (story) By Liam O'Flaherty</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> • read & critically analyze the text to find out the significance of the title and theme of the story • answer the given questions relevantly by using inferential and analytical skills • get familiar with new vocabulary words • follow the steps to write a summary of the story correctly/proficiently in your own words 	<ul style="list-style-type: none"> • Reading of the text 'His First Flight' • While reading the passage, underline new vocabulary and the lines where theme of the lesson is embedded. • Identify the elements of bravery, courage and struggle in the story. • Reflect on the significance of title and theme of the story • Study the inferential and analytical questions given at the end of Unit Exercise • Read the text again to find relevant key points for each answer. <p>Written work:</p> <ul style="list-style-type: none"> • Answer all Qs on loose sheets/ registers. Refer board pattern/word count for the length of answers. • For Summary writing, tap the given link for summary writing intro & steps to follow. • Practice summarizing the story in your own words. (word count: One third of the original length) 	<ul style="list-style-type: none"> • English Textbook Grade XI (KPTBP) (Pgs.11-17) • https://sabaq.pk/video-page.php?sid=punjab-english-10th-3.1&v=e-9-10-intro-summary-steps-1
	<p>Applied Grammar Parts of Speech 1. Noun 2. Pronoun</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> • define Noun & pronoun • identify kinds of Nouns & Pronouns • complete practice 	<ul style="list-style-type: none"> • Study the following books / mentioned pg # for revision of Nouns & Pronouns with examples. Ref: Suggested Grammar books Ref: Textbook Page 18 Ref: Textbook Page 47 • Textbook Unit 1.2: Language Study, Q.15 Exercise on page 32 will be the written work • Textbook Unit Ex.2.2, Language Study, Question 11 (page 59) 	<ul style="list-style-type: none"> • Textbook pg 18, 32, 47, 59 • High School English Grammar & Composition Multicolour Edition by Wren & Martin (2016 Edition) • Complete Edition Part I Intermediate English Simple Grammar &

Week / Study Hours	Topics / Objectives	Study Guidelines	Resources
	exercises for reinforcement of the concept	· Tap e-learn Punjab & any other reliable, viable source for better learning & online practice test on the topic.	Composition by Prof. Zia-ur-Rahman Khan · Internet for conceptual clarity & online practice test

انٹرنیشنل سلیمن پیک ایچ ایس ایس سی XI

کلڈ ہڈ وادم ریجن

2021-2020

اوردو

ذرائع	دستیاب وقت	
	جماعت گیارھویں	ہفتے / دن
ایکسٹ بک اردو (لازمی) گیارھویں جماعت کے لیے ناشر: خیبر پختونخوا ایکسٹ بک بورڈ پشاور ارونٹ بک ایرجسٹری	35	کل دستیاب دورانیہ
	29	تدریسی دورانیہ
	1 ہفتہ	سکلی امتحان
	10 دن	تعطیلات موسم سرما
	5 ہفتے	دھرنی + ایسٹ سیریز
	فیڈل بوڈ امتحان	

تعلیمی رہنمائی

- 1- سٹی بیگ میں دیکھا تھا کام نصب پر مبنی ہے، افہام و تفہیم کے ساتھ وسیع مطالعہ پر توجہ دیں۔ اس مقصد کے لیے طلبہ اپنے تصورات کی وضاحت کے لیے تجویز کرہ ٹیوٹوریل دیکھ سکتے ہیں۔
- 2- طلبہ دیے گئے ہفتہ وار کام کے لیے ٹیم ٹیبل بنائیں جو کہ دیے گئے تدریسی گھنٹوں کے مطابق ہفتے کے 6/5 دنوں پر مشتمل ہو۔
- 3- والدین ہفتے بچے کی جمع کرہائی اسائنمنٹس کا ریکارڈ رکھتے ہوئے اس کی کارکردگی کی اوپیکسٹ میں طلبہ کی طرف سے لگائے گئے ٹک کے سلائی نگرنی کریں۔
- 4- دیکھا تحریری مشقی کام رجسٹرانٹ ہک پر کیا جائے۔ کام کی تکمیل کو یقینی بنایا جائے اور اس کام کو ڈونٹیر یا فولڈ میں رکھا جائے ہفتہ وار کام کے لیے جلاکا (Separators) استعمال کریں۔
- 5- اسائنمنٹس کی ہارڈ کاپی اسکول کے دیے گئے شیڈول کے مطابق اسکول کو ہاتھ آئے گی سے جمع کروائی جائیں طلبہ پڑھائی کے دوران ماسمجھ آنے والے نکات کو اپنی آن لائن معلمہ / معلم سے رہنمائی حاصل کریں اسنادہ رہنمائی کے لیے 8 سے 2 بجے تک آن لائن موجود ہیں۔
- 6- جب اسکول باقاعدہ شروع ہو جائیں گے تو طلبہ ان نکات کی نشان دہی کریں گے، جن کے لیے انہیں وضاحت کی ضرورت ہے۔ لہذا طلبہ کے لیے یہ ضروری ہے کہ وہ گھر میں قیام کے دوران لکھنے، سننے اور یاد کرنے کے کام کو جاری رکھیں تاکہ آنے والے امتحانات کے لیے خود کو تیار کر سکیں۔

چیک لسٹ مکمل / آہل کام	نصابی مواد موضوع: سبق / نظم / غزل کا نام	ہفتے / دن	ہفتے کا مطالقی وقت
	اپنی مدد آپ درخواست نویسی	29 جن - 4 لائی	تہ نمبر 1 4 گھنٹے

سلیب میں ایک بلاک 1 (پہلا ہفتہ)

ذبح	طریقہ تدریس	موضوعات / مقاصد	فہتہ نمبر / وقت
اردو (لازمی) گیارھویں جماعت کے لیے صفحات 1 تا 9	☆ طلباء سرسید ہمد لفظ کے تعاف کو بگو چوس او جو نکات سمجھ نہ آئیں انہیں خط کشید کریں۔ سکلی کھلنے پر یلانی آ لائن معلمہ معلم سے ان سے متعلق رہنمائی حاصل کریں۔ ☆ سبق کی پڑھائی کریں۔ ☆ مشکل الفاظ و کتب کے معنی کے لیے لغت کا استعمال کیا جائے۔ ☆ سبق پڑھ کر مشقی سوالات کے جوابات اپنے الفاظ میں تحریر کیے جائیں۔ ☆ طلباء گذشتہ جماعت میں نثر پارسی تشریح کر چکے ہیں ہی طریقہ کو اپنی جماعت کے معیار کو مد نظر رکھ کر طلباء کسی ایک نثر پارے کی تشریح کریں۔ ☆ محاورے او رف مہر میں فق صفحہ نمبر 9 دیگیا ہے اسے غوسے پڑھیں او روزمو او محاورے کی تعاریف او امثل لگ لگ تحریر کریں	سبق نمبر 1 اپنی مدد آپ طلباء س قابل ہوں گے کہ : 1 سید ہمد لفظ کے تعاف کو پڑھ کر سمجھ سکیں۔ 2 سبق کی پڑھائی کر سکیں۔ 3 مشقی سوالات کے جوابات سمجھ کر لکھ سکیں۔ 4 نثر پارے کی تشریح کر سکیں۔	فہتہ نمبر 1 4 گھنٹے

ذبح	طریقہ تدبیریں	موضوعات / مقاصد	نفتہ نمبر / وقت
قوئلر کی کتب	☆ طلبہ لکھنے جماعتق میں درخواست نویسی کے اصل و ضبط کو جان چکے ہیں او درخواست بھی لکھ چکے ہیں ☆ موضوع کو سمجھ کر او مول و جواب کو ذہن میں لالتے ہوئے دیے گئے موضوع درخواست تحریر کریں میونسپل کارپوریشن کے چیئرمین کے نام علاقے میں موجود ناچار تجاوزت ہٹانے " کی و خواست	درخواست نویسی طلبہ اس قابل ہیں گے کہ	

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Mathematics

Resources	Available Time														
<p>Prescribed Textbook Mathematics Algebra and Trigonometry for Class XI (Punjab Curriculum and Text Book Lahore)</p> <p>Authors: Prof. Shamshad Muhammad Lodhi (late) Prof. Muhammad Sharif Ghouri Prof. SanaullahBhatti Prof. Khalid Saleem</p> <p>Resources: Mathematics Algebra and Trigonometry for Class XI (Punjab Curriculum and Text Book Lahore)</p> <p>Prescribed Notebook: Single Line Notebook (Large)/Register Loose Sheets</p>	<table border="1"> <thead> <tr> <th style="text-align: center;">Weeks / Days</th> <th style="text-align: center;">Class XI</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Total available</td> <td style="text-align: center;">35 wks</td> </tr> <tr> <td style="text-align: center;">Study Time</td> <td style="text-align: center;">29 wks</td> </tr> <tr> <td style="text-align: center;">School Assessments</td> <td style="text-align: center;">06 days</td> </tr> <tr> <td style="text-align: center;">Winter Break</td> <td style="text-align: center;">10 days</td> </tr> <tr> <td style="text-align: center;">Syllabus completion + Revision + Test Series</td> <td style="text-align: center;">5 wks</td> </tr> <tr> <td colspan="2" style="text-align: center;">Federal Board Examination</td> </tr> </tbody> </table>	Weeks / Days	Class XI	Total available	35 wks	Study Time	29 wks	School Assessments	06 days	Winter Break	10 days	Syllabus completion + Revision + Test Series	5 wks	Federal Board Examination	
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Federal Board Examination															

Instructions

- 1. All the work in study pack is syllabus oriented, focusing on comprehensive study of course content supported by suggested tutorials & written assignments.**
- 2. Total study time for first five weeks (Block 1) of Mathematics is 26 hours & 30 minutes (approximately 5 hours and 30 minutes every week). Students to make a timetable for the assigned weekly work, spreading over 5/6 days a week according to the given study hours.**
- 3. Written Practice of the assigned tasks will be done on loose sheets. Ensure it is filed in some folder/dossier.**
- 4. Assignments to be regularly submitted to schools according to procedure & schedule issued by the School.**
- 5. Once the regular school starts, students will identify the concepts for which they need extra reinforcement & explanation. Hence, it is mandatory for the students to complete the Study Packs during stay home period.**
- 6. The checklist in the Block Syllabus for the Study Pack will be filled by the students every week for monitoring self-study time.**

Block 1: Mathematics Week 1

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 1 5: 30Hrs	Jun 29- Jul 04	Unit – 3 Matrices and Determinants 3.1 Introduction 3.1.1 Addition of matrices 3.1.2 Scalar multiplication 3.1.3 Subtraction of matrices 3.1.4 Multiplication of two matrices. 3.2 Determinant of a 2x2 matrix 3.2.1 Singular and non-singular matrices 3.2.2 Adjoint of a 2x2 matrix 3.2.3 Inverse of a 2x2 matrix 3.3 Solution of Simultaneous Linear Equation by using matrices.	

Syllabus Pack Block 1 (week 1)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 1 5 : 30 Hrs	Unit – 3 Matrices and Determinants 3.1 Introduction 3.1.1 Addition of matrices 3.1.2 Scalar multiplication 3.1.3 Subtraction of matrices 3.1.4 Multiplication of two matrices.	Read the textbook from Ex 3.1 - 3.3 (Page No. 80 – 114) to cover the desired amount of content for the week: <ul style="list-style-type: none"> You have already studied the concepts of matrices and determinants in Unit 1 Class IX. Review and Revise matrices, their properties and operations on the matrices to refresh your previous understanding. It is expected that you will easily understand the basic concepts specially given in Ex 3.1, 3.2 & 3.3, however, if this not the case use shared video tutorials and rely on practice to overcome gaps. In this chapter you will learn about carrying out operations on matrices of order $n \times m$ such that $n, m \geq 3$. 	Mathematics Algebra and Trigonometry for Class XI (Punjab Curriculum and Text Book Lahore) (Page No. 80 – 114) <ul style="list-style-type: none"> Laptop / Tab / Smart Phone Watch the relevant videos on sabaq.pk Watch these additional videos;

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>3.2 Determinant of a 2x2 matrix</p> <p>3.2.1 Singular and non-singular matrices</p> <p>3.2.2 Adjoint of a 2x2 matrix</p> <p>3.2.3 Inverse of a 2x2 matrix</p> <p>3.3 Solution of Simultaneous Linear Equation by using matrices.</p> <p>3.4 Field</p> <p>3.5 Properties of Matrix Addition, Scalar Multiplication & Matrix Multiplication.</p> <p>3.6 Determinants</p> <p>3.6.1 Minor and cofactor of an element of a matrix or its determinants.</p> <p>3.6.2 Determinants of a Square Matrix of order $n \geq 3$</p> <p>3.7 Properties of Determinants</p>	<ul style="list-style-type: none"> • Study the basic definition of matrix and types of matrices. • Revise the concept of addition, subtraction and multiplication of matrices using class IX textbook or online tutorials. • Review and comprehend the conditions to add, subtract and multiply the matrices. • Study the adjoint and inverse of matrices and prove that $A^{-1} = \frac{Adj A}{ A }$. • Solve Q 1-14 of Ex3.1. • Read about Field and discuss when a set is said to be Field. • Review Properties of Matrix Addition, Scalar Multiplication and Matrix Multiplication. • Solve Q 1-9 of Ex 3.2 • Study textbook topic “Determinants” and comprehend the procedure to take the determinant of 3x3 or higher order. • Review the properties of determinants and reassure with examples how determinants without expansion can be evaluated. • Solve the Q1-12 of Ex 3.3. • Study the terms minor and cofactor of matrix with examples. • Study the method to take the adjoint and inverse of matrix. • Solve Q 13-17 of Ex 3.3. 	<ul style="list-style-type: none"> • https://www.youtube.com/watch?v=LBQewnDyfYM • https://www.khanacademy.org/math/precalculus/x9e81a4f98389efdf:matrices/x9e81a4f98389efdf:determinant-of-2x2-matrix/v/finding-the-determinant-of-a-2x2-matrix • https://www.khanacademy.org/math/algebra-home/alg-matrices/alg-determinants-and-inverses-of-large-matrices/v/finding-the-determinant-of-a-3x3-matrix-method-2

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>which help in their Evaluation.</p> <p>3.8 Adjoint and Inverse of Square Matrix of order $n \geq 3$</p> <p>After studying these topics the students should be able to:</p> <ul style="list-style-type: none"> • differentiate different types of matrices • add, subtract and multiply the matrices • find the determinant of 2×2 matrices • differentiate the singular and non-singular matrices • find the inverse of a given matrix • solve the simultaneous linear equations 		

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Physics

Resources	Available Time															
<p>Prescribed Textbook Physics XI – Khyber Pakhtunkhwa Textbook Board, Peshawar</p> <p>Authors: Prof. Sakhi Jan</p> <p>Resources: Physics XI – Khyber Pakhtunkhwa Textbook Board, Peshawar</p> <p>Prescribed Notebook:</p> <ul style="list-style-type: none"> · Single Line Register · Loose Sheets 	<table border="1"> <thead> <tr> <th style="text-align: center;">Weeks / Days</th> <th style="text-align: center;">Class XI</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Total available</td> <td style="text-align: center;">35 wks</td> </tr> <tr> <td style="text-align: center;">Study Time</td> <td style="text-align: center;">29 wks</td> </tr> <tr> <td style="text-align: center;">School Assessments</td> <td style="text-align: center;">06 days</td> </tr> <tr> <td style="text-align: center;">Winter Break</td> <td style="text-align: center;">10 days</td> </tr> <tr> <td style="text-align: center;">Syllabus completion + Revision + Test Series</td> <td style="text-align: center;">5 wks</td> </tr> <tr> <td colspan="2" style="text-align: center;">Federal Board Examination</td> </tr> </tbody> </table>		Weeks / Days	Class XI	Total available	35 wks	Study Time	29 wks	School Assessments	06 days	Winter Break	10 days	Syllabus completion + Revision + Test Series	5 wks	Federal Board Examination	
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Federal Board Examination																

Instructions

- 1. All the work in study pack is syllabus oriented, focusing on comprehensive study of course content supported by suggested tutorials & written assignments.**
- 2. Total study time for first five weeks (Block 1) of Physics is 26 hours & 30 minutes (approximately 5 hours and 30 minutes every week). Students to make a timetable for the assigned weekly work, spreading over 5/6 days a week according to the given study hours.**
- 3. Written Practice of the assigned tasks will be done on loose sheets. Ensure it is filed in some folder/dossier.**
- 4. Assignments to be regularly submitted to schools according to procedure & schedule issued by the School.**
- 5. Once the regular school starts, students will identify the concepts for which they need extra reinforcement & explanation. Hence, it is mandatory for the students to complete the Study Packs during stay home period.**
- 6. The checklist in the Block Syllabus for the Study Pack will be filled by the students every week for monitoring self-study time.**

Block 1: Physics Week 1

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 1 3 : 30 Hrs	Jun 29- Jul 04	UNIT # 1 MEASUREMENT 1.1 Physical Quantities 1.2 International System of Units 1.3 Scientific Notation 1.4 Errors and Uncertainties	

Syllabus Pack Block 1 (week 1)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 1	UNIT # 1 MEASUREMENT 1.1 Physical Quantities 1.2 International System of Units 1.3 Scientific Notation 1.4 Errors and Uncertainties	Read the textbook from pgs. 1-7 to cover the desired amount of content for the week and enable yourself to: <ul style="list-style-type: none"> Describe the scope of Physics in science, technology and society. The importance realm of science known as Physics. State SI base units, derived units, and supplementary units for various measurements. Revise previously studied physical quantities and physical units, SI units, supplementary units, base units and derived units. Express derived units as products or quotients of the base units State the conventions for indicating units as set out in the SI units. Revise scientific notation and conventions for indicating SI units. Comprehend why all measurements contain some uncertainty Distinguish between systematic errors (including zero errors) and random errors. Study errors and 	<ul style="list-style-type: none"> Physics XI – Khyber Pakhtunkhwa Textbook Board, Peshawar pgs. 1-7 Laptop / Tab / Smart Phone Watch the relevant videos on sabaq.pk Watch these additional videos; https://www.youtube.com/watch?v=LZMMH-GFO-k https://www.youtube.com/watch?v=GAInJ5VgJ1w https://www.youtube.com/watch?v=6XZsfV5FCwc

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>After studying these topics the students should be able to:</p> <ul style="list-style-type: none"> · identify physics apart from other branches of science and its application in technology. · understand the need for SI units and apply them wherever required. · learn to use and work with scientific notation wherever required. · identify different forms of errors; learn to calculate them and to exclude its effect from the readings. 	<p>uncertainties with the help of suitable examples given in textbook and suggested links</p> <ul style="list-style-type: none"> · To explain the difference between personal errors, random error and systematic error. 	

**APSACS Syllabus Pack HSSC XI
Cold & Warm Region
2020-2021**

Chemistry

Resources	Available Time	
Prescribed Textbook <ul style="list-style-type: none"> · Textbook of Chemistry Grade 11 National Book Foundation Islamabad As Federal Textbook Board- Islamabad · Practical Notebook Chemistry Class 11 Prescribed Notebook: <ul style="list-style-type: none"> · Single-lined Register 	Weeks / Days	Class XI
	Time available	35 wks
	Study Time	29wks
	School Assessments	06 days
	Winter Break	10 days
	Syllabus completion + Revision + Test Series	05 wks
	Federal Board Examination	

Instructions

- 1. All the work in study pack is syllabus oriented, focusing on comprehensive study of course contents supported by tutorials, written assignments & projects.**
- 2. Total study time for Chemistry XI Block 1 (5 weeks) is 26 hours 30 min. Students to make a timetable for assigned weekly work, spreading over 5/6 days a week according to the given study hours.**
- 3. The Written Practice of the assigned tasks will be done on loose sheets. Ensure it is filed in some folder/dossier.**
- 4. Assignments to be regularly submitted to schools using e medium or hard copies according to procedure & schedule issued by the School. The school teachers remain available online from 8.00 to 2.00 to provide support to those who require assistance.**
- 5. Once the regular school starts, students will identify the concepts for which they need extra reinforcement & explanation. Hence, it is mandatory for the students to complete the Study Packs during stay home period.**
- 6. The checklist for the Study Pack will be filled by the students every week for monitoring self-study time.**

Block I: Chemistry Week 1

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 1 5hrs 30 min	June 29- July 4	CHAPTER 01: STOCHIOMETRY <ul style="list-style-type: none"> · Mole · Representative Particles (Avogadro's Number) · Mole Calculations · Construction of Mole ratios as Conversion factors in Stoichiometric Calculations · Stoichiometric Calculations · Representative Particles · Gay Lussac's Law · Molar volume · Percentage Composition · Self Check Exercises · Topic Related Exercise Questions 	

Syllabus Pack Block 1 (week 1)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 1 5 hrs 30 min	CHAPTER 01: <u>STOCHIOMETRY</u> 1.1:Introduction 1.1:Mole 1.2: Representative Particles (Avogadro's Number)	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline · Study and then redo the sample problems 1.3-1.4 to understand the concepts and their calculations · Solve Self Check Exercises given in referred pages to 	<ul style="list-style-type: none"> – Textbook of Chemistry Grade 11 National Book Foundation Islamabad as Federal Textbook Board- Islamabad pg 6-12,pg 20-21) – Laptop / Tab / Smart Phone / internet – Self-Check Exercises

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>1.2.1: Mole Calculations 1.2.2: Construction of Mole ratios as Conversion factors in Stoichiometric Calculations</p> <p>1.2.3: Stoichiometric Calculations</p> <p>1.2.4: Representative Particles</p> <ul style="list-style-type: none"> · Gay Lussac's Law · Molar volume <p>1.3: Percentage Composition</p> <ul style="list-style-type: none"> · Self Check Exercises <p>Students will be able to:</p> <ul style="list-style-type: none"> · explain the concept of mole, molar ratio and limiting reactant. · interpret balanced chemical equations in terms of interacting moles, representative 	<p>practice problem solving /numericals related to the concepts.</p> <p><u>Written work</u></p> <ul style="list-style-type: none"> · Students to mark and solve all topic related questions and problems given in Exercise. · All written work to be submitted and get checked by the Subject Teacher. <p><u>Let's find out:</u></p> <p>The students to find out by themselves using internet search and record their finding on notebooks/loose sheets</p> <ul style="list-style-type: none"> · The percent compositions of all of the elements in the following compounds? CuBr_2, $(\text{NH}_4)_2\text{SO}_4$, KMnO_4, $\text{Mg}(\text{NO}_3)_2$, $(\text{NH}_4)_3\text{PO}_4$. · How many grams are in 0.65 moles of beryllium fluoride, BeF_2? · How many moles are in 12.2 grams of copper (II) hydroxide, $\text{Cu}(\text{OH})_2$? · How many grams are in 9.03 moles of potassium oxide, K_2O? · How many moles are in 2.8×10^3 mg of ammonia, NH_3? 	<p>Reference Links: Watch the topic related videos on</p> <ul style="list-style-type: none"> - sabaq.pk - elearn.gov.pk - https://www.britannica.com/science/mole-chemistry - www.chembuddy.com/?left=balancing-stoichiometry&right=ratios-proportions - https://en.wikipedia.org/wiki/Gay-Lussac%27s_law

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>particles, masses and volume of gases (at STP)</p> <ul style="list-style-type: none">· define stoichiometry, limiting reactant, molar volume and Avogadro's number· determine the %age composition of different compounds· solve and answer the topic related questions given in exercise		

**APSACS Syllabus Pack HSSC XI
Cold & Warm Region
2020-2021**

Biology

Resources	Available Time															
<p>Prescribed Textbook</p> <ul style="list-style-type: none"> · Textbook of Biology 11, National Book Foundation, Islamabad · Practical Notebook Biology Class 11 <p>Prescribed Notebook:</p> <ul style="list-style-type: none"> · Single-lined Register 	<table border="1"> <thead> <tr> <th style="text-align: center;">Weeks / Days</th> <th style="text-align: center;">Class XI</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Time available</td> <td style="text-align: center;">35 wks</td> </tr> <tr> <td style="text-align: center;">Study Time</td> <td style="text-align: center;">29 wks</td> </tr> <tr> <td style="text-align: center;">School Assessments</td> <td style="text-align: center;">06 days</td> </tr> <tr> <td style="text-align: center;">Winter Break</td> <td style="text-align: center;">10 days</td> </tr> <tr> <td style="text-align: center;">Syllabus completion + Revision + Test Series</td> <td style="text-align: center;">05 wks</td> </tr> <tr> <td colspan="2" style="text-align: center;">Federal Board Examination</td> </tr> </tbody> </table>		Weeks / Days	Class XI	Time available	35 wks	Study Time	29 wks	School Assessments	06 days	Winter Break	10 days	Syllabus completion + Revision + Test Series	05 wks	Federal Board Examination	
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Federal Board Examination																

Instructions

- 1. All the work in study pack is syllabus oriented, focusing on comprehensive study of course contents supported by tutorials, written assignments & projects.**
- 2. Total study time for Biology XI Block 1 (5 weeks) is 26 hours 30 min. Students to make a timetable for assigned weekly work, spreading over 5/6 days a week according to the given study hours.**
- 3. The Written Practice of the assigned tasks will be done on loose sheets. Ensure it is filed in some folder/dossier.**
- 4. Assignments to be regularly submitted to schools using e medium or hard copies according to procedure & schedule issued by the School. The school teachers remain available online from 8.00 to 2.00 to provide support to those who require assistance.**
- 5. Once the regular school starts, students will identify the concepts for which they need extra reinforcement & explanation. Hence, it is mandatory for the students to complete the Study Packs during stay home period.**
- 6. The checklist for the Study Pack will be filled by the students every week for monitoring self-study time**

Subject: Biology– XI
Block I: Biology Week 1

Session (2020-2021)

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 1 5 hrs 30 min	June 29- July 4	Chapter 1 <u>Cell Structure and Functions</u> <ul style="list-style-type: none"> · Introduction · Techniques Used In Cell Biology · Cell Fractionation · Differential Staining · Micro dissections · Tissue Culture · Chromatography · Electrophoresis · Spectrophotometry · Resolution and Magnification in Microscopy · Micrometry · Cell Wall & Plasma Membrane · Plasma Membrane · Cell Organelles · Endoplasmic Reticulum · Ribosomes · Golgi Complex 	

Syllabus Pack Block 1 (week 1)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 1 5 hrs 30 min	Chapter 1 <u>Cell Structure and Functions</u>	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions 	<ul style="list-style-type: none"> – Textbook of Biology Grade 11 National Book Foundation Islamabad as Federal

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> • Introduction 1.1: Techniques Used In Cell Biology 1.1.1: Cell Fractionation 1.1.2: Differential Staining 1.1.3: Microdissections 1.1.4: Tissue Culture 1.1.5: Chromatography 1.1.6: Electrophoresis 1.1.7: Spectrophotometry 1.1.8: Resolution and Magnification in Microscopy 1.1.9: Micrometry 1.2: Cell Wall & Plasma Membrane 1.2.1: Cell Wall 1.2.2: Plasma Membrane 1.3: Cytoplasm & Organelles 1.3.1: Cytoplasm 1.3.2: Cell Organelles Ø Endoplasmic Reticulum Ø Ribosomes Ø Golgi Complex • Science Tidbits • Skills, Analyzing, Interpreting and communication • Critical Thinking 	<p>and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline</p> <ul style="list-style-type: none"> • Study all the figures and tables given with topics to understand the concepts. • Think critically to answer questions asked in ‘Critical Thinking’ columns given with topics. • Read all interesting extra information and ‘Science Tidbits’ boxes. • Do the tasks given in ‘Skills, Analyzing, Interpreting and communication’ boxes. <p><u>Written work</u></p> <ul style="list-style-type: none"> • Students to mark and solve all topic related questions given in Exercise . • Draw diagrams related with questions. • All written work to be submitted and get checked by the Subject Teacher. <p><u>Let the students find out:</u> The students to find out by themselves using internet search and record their finding on registers/loose sheets</p> <ul style="list-style-type: none"> • How do you summarize the cell theory? • What does cell Fractionation allow a scientist to study? • What is the difference between simple and differential staining? • What exactly is the purpose of Electrophoresis? • What is a cell wall like? • What is the difference between plasma membrane and cell membrane? • Is it true that cytoplasm contains all the organelles? 	<p>Textbook Board-Islamabad pg 6-18,pg 33-37)</p> <ul style="list-style-type: none"> – Laptop / Tab / Smart Phone / internet – Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p> <ul style="list-style-type: none"> – sabaq.pk – elearn.gov.pk – https://www.khanacademy.org/test-prep/mcat/chemical-processes/separations-purifications/v/gel-electrophoresis – https://www.youtube.com/watch?v=moPJkCbKjBs – https://www.youtube.com/watch?v=8v4HE8dCfql – https://youtu.be/TdJ57SQ6GAQ

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> · Topic related Exercise Questions <p>Student will be able to:</p> <ul style="list-style-type: none"> · outline the points of cell theory which is the fundamental concept of Biology · draw the basic structure of the cell found in all living organisms · name and describe some commonly used techniques used to know the structure and functions of cells and cell organelles · differentiate between spectrophotometry and micrometry · describe the physio-chemical structure and function of the cell membrane and cytoplasm, including its regulation of materials into and out of the cell · explain composition, structure and functions of plasma membrane · describe metabolic and storage role of 		

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>cytoplasm</p> <ul style="list-style-type: none">· explain structure and functions of Endoplasmic Reticulum, Ribosomes and Golgi Complex and draw their diagrams· answer all the topic related questions in exercise		

**APSACS Syllabus Pack HSSC XI
Cold & Warm Region
2020-2021**

Computer Science

Resources	Available Time														
<p>Prescribed Textbook</p> <ul style="list-style-type: none"> · Text book of Computer Science Grade-11 National Book Foundation as Federal Textbook Board Islamabad. <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>Resources:</p> <ul style="list-style-type: none"> · Text book of Computer Science Grade-11 National Book Foundation as Federal Textbook Board Islamabad. · Star Computer Practical Notebook for Class XI & XII <p>Prescribed Notebook:</p> <ul style="list-style-type: none"> · Single-lined notebook (large) 	<table border="1"> <thead> <tr> <th style="text-align: center;">Weeks / Days</th> <th style="text-align: center;">Class XI</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Total available</td> <td style="text-align: center;">35 wks</td> </tr> <tr> <td style="text-align: center;">Study Time</td> <td style="text-align: center;">29 wks</td> </tr> <tr> <td style="text-align: center;">School Assessments</td> <td style="text-align: center;">06 days</td> </tr> <tr> <td style="text-align: center;">Winter Break</td> <td style="text-align: center;">10 days</td> </tr> <tr> <td style="text-align: center;">Syllabus completion + Revision + Test Series</td> <td style="text-align: center;">05 wks</td> </tr> <tr> <td colspan="2" style="text-align: center;">Federal Board Examination</td> </tr> </tbody> </table>	Weeks / Days	Class XI	Total available	35 wks	Study Time	29 wks	School Assessments	06 days	Winter Break	10 days	Syllabus completion + Revision + Test Series	05 wks	Federal Board Examination	
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Study Time	29 wks														
School Assessments	06 days														
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Syllabus completion + Revision + Test Series	05 wks														
Federal Board Examination															

Instructions

- 1. All the work in study pack is syllabus oriented, focusing on comprehensive study of course content supported by suggested tutorials & written assignments.**
- 2. Total study time for first five weeks (Block 1) of Computer Science is 25 hours. Students to make a timetable for the assigned weekly work, spreading over 5/6 days a week according to the given study hours.**
- 3. Written Practice of the assigned tasks will be done on loose sheets. Ensure it is filed in some folder/dossier.**
- 4. Assignments to be regularly submitted to schools according to procedure & schedule issued by the School.**
- 5. Once the regular school starts, students will identify the concepts for which they need extra reinforcement & explanation. Hence, it is mandatory for the students to complete the Study Packs during stay home period.**
- 6. The checklist in the Block Syllabus for the Study Pack will be filled by the students every week for monitoring self-study time.**

Block 1: Computer Science Week 1

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 1 5hrs	June 29- July 4	Chapter # 1: Overview of Computer Systems <ul style="list-style-type: none"> · Computing Devices · Basic Operations of a Computer · Classification of Digital Computers · Modern Use of Computers In today's Life · Computer Hardware And Software · Relevant Ex Questions at the end of Unit 	

Syllabus Pack Block 1 (week 1)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 1 5 hrs	Chapter # 1: Overview of Computer Systems Students will be able to <ul style="list-style-type: none"> · understand how computer system works. · understand the working of computing devices. · understand about the basic operations of computer system. 	Recall the previous knowledge about the concept taught in previous classes. <ul style="list-style-type: none"> · Read all important definitions and topics given in textbook · Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google about the Working of Computer system, Computing devices. · Gather information about basic operations of computer system. · Gather information about the different types of computers and how to identify modern use of computer. https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-1 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-1a https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-69 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-43	<ul style="list-style-type: none"> – Textbook of Computer Science Grade 11 – National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 8-13 – Exercise(MCQs Short Q/A,Long Q/A) Reference Links: <ul style="list-style-type: none"> – Watch the topic

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> • differentiate between different types of computers. • identify modern use of computers in this era. • identify computer hardware and software. 	<p>https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-47</p> <p>https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-91</p> <p>https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-92</p> <p>https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.1&v=cs-intro-comp-93</p> <p>Visit the above given links to</p> <ul style="list-style-type: none"> • See the working computer systems and computing devices. • See the devices on multimedia, smart board or on laptop. • See the working of devices attached with a computer system. • See the examples of different devices attached with computer system. • Observe the basic operations of a computer. • See the Classification of Digital Computers and factors that make computers different from each other. • See the modern use of computers in today’s life. <p>• Written work</p> <ul style="list-style-type: none"> • After watching the videos ,Try to write 2-3 lines about the basic operations of computer by your own Write the answers of Questions given at the end of chapter Q2(i,ii,iii,iv & vi) 	<p>related videos on sabaq.pk</p> <p>Solve the practice test given with topics on sabaq.pk</p>

تدریسی ہدایات:

- آیت او احادیث کا باحواہ ترجمہ چھی طرح سمجھ کر زنی یاد کریں۔
- آیت کی مرید وضاحت اور تشریح کے لیے طلبہ کتب تفسیر کا مطالعہ کریں۔
- احادیث نبوی ﷺ بیان کرہ احکام کو مرید سمجھنے کے لیے احادیث کی کتب "صحاح ستہ" یا کسی بھی حدیث کی کتاب کا مطالعہ کریں۔

ہفتہ نمبر/وقت	تہم سن	نصبی مواد باب/سبق/موضوعات	چیک لسٹ (برائے طالب علم) مکمل/ناکمل
پہلا ہفتہ (دو گھنٹے)	جن 29 - لائی 04	باب اول: بنیای عقائد ☆ توحید (مفہوم - ذلت و صفات ہای تعالیٰ) باب چہارم: تعاف مرآن و حدیث ☆ منتخب آیت : 1	

سلیس پیک بلاک-1 (پہلا ہفتہ)

ہفتہ نمبر/تدریسی گھنٹے	موضوعات/مقاصد	تدریسی ہدایات	ذرائع
پہلا ہفتہ (و گھنٹے)	باب اول: بنیای عقائد ☆ توحید (مفہوم - ذلت و صفات ہای تعالیٰ) طلبا اس قابل ہیں گے کہ: • توحید کے معنی و مفہوم کو سمجھ سکیں۔ • آیت مبارک کی روشنی میں وجوہ ہای تعلق کو سمجھ سکیں۔ • ذلت و صفات ہای تعلق پر اظہارِ خلیل کر سکیں۔ • سبق میں موجود موضوع سے متعلقہ آیات	• توحید (مفہوم - ذلت و صفات ہای تعالیٰ) کی پڑھائی کریں۔ • آیت مبارک کی روشنی میں عقیدہ توحید او وجوہ ہای تعلق کو سمجھ کر پھیں۔ • موضوع سے متعلق چند آیت کا ترجمہ سمجھ کر زنی یا کریں۔ • سورۃ الاخلاص کی روشنی میں ذلت و صفات ہای تعلق پر زنی اظہارِ خلیل کریں۔ • درست تلفظ او مرآت کے ساتھ سورۃ الاخلاص مع ترجمہ سمجھ کر پھیں او زنی یا کریں۔	• اسلامیت لازمی (11) (ص: 1- 3 + 68) • مرآن مجید مع ترجمہ • تفسیر مرآن • انٹریٹ / قاروکی تلاوت پر مشتمل سی ڈی

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر/ تدریسی گھنٹے
	<ul style="list-style-type: none"> • پڑھے گئے موضوعات سے متعلق مشقی سوالات کے جوابات نوٹ بکس پر لکھیں۔ • درست تلفظ اور مرث کے ساتھ آیت مبارکہ مع جہم و تشریح سمجھ کر پھیں اور نوٹ بکس پر تحریر کریں۔ • آیت مبارکہ میں بیان کردہ احکامات کو اپنے الفاظ میں زنی بیان کریں۔ • آیت مبارکہ کی روشنی میں "اطاعت رسول ﷺ پر زنی اظہار خلیل کریں۔ 	<p>مرثی کے رحم زنی یا کر سکیں۔</p> <ul style="list-style-type: none"> • موضوع سے متعلق مشقی سوالات کے جوابات لکھ سکیں۔ <p>•</p> <p><u>باب چہارم: تعاف فرین و حدیث</u></p> <p><u>مختار آیت : 1</u></p> <p>(سورة الاحزاب : 70 - 71)</p> <p>طلباس قابل ہیں گے کہ:</p> <ul style="list-style-type: none"> • آیت مبارکہ کو سمجھ کر جہم و تشریح کر سکیں۔ 	

Block 1: English Week 2

# of wks / Study Hours	Week Dates	Course Content Unit /Chapter/Topics	Checklist Complete or Incomplete
Week 2 4hrs	July 06 – July 11	<ul style="list-style-type: none"> Unit 1: First Attempts & Challenges Reading Selection: 1.2 First Year at Harrow (Essay) by Sir Winston S. Churchill Reading Selection: 1.3 September, the First Day of School (Poem) by Howard Nemerov 	

Syllabus Pack Block 1 (week 2)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 2 4hrs	<p>Unit 1: First Attempts & Challenges Reading Selection: 1.2 First Year at Harrow (Essay) by Sir Winston S. Churchill</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> read & comprehend the theme of the lesson tap accessible and authentic sources/links to make their research meaningful 	<ul style="list-style-type: none"> Thorough reading of the text. Research: Find about the life of Sir Winston S. Churchill as a British Prime Minister during the Second World War; an eminent writer and winner of the Nobel Prize for Literature. Self-reflection on title and theme- how it feels to do anything for the first time especially the first day of college. Read the essay again with inferential and analytical questions in mind given at the end of Unit Exercise. Mark the key points in textbook for answer to each Q. Written work: Write answers in your own words in prescribed word limit. Refer FBISE policy. 	<ul style="list-style-type: none"> English Text book Grade XI (KPTBP) (Pgs. 26-30) Dictionary Internet for the research work

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none">· use their imagination to think and relate to how it feels on the first day of college· Find contextual meanings of new vocabulary· answer the questions based on the text		

چیک لسٹ مکمل / آہل کام	نصیبی مواد موضوع: سبق / نظم / اغزل کا نام	ہفتے / دن	ہفتے کا مطالقی وقت
	ظلم حمد	6 لائی - 11 لائی	تہ نمبر 2 4 گھنٹے

سلیب میں ایک بلاک 1 (دوسرا ہفتہ)

ذبح	طریقہ تدریس	موضوعات / مقاصد	فتہ نمبر / وقت
اردو (لازمی) گیارھویں عت کے لیے صفحات 114 تا 116	☆ طلبہ مامر القادری کے تعاف کو بغو چیس اوجو نکلت سمجھ نہ ایں نہیں خط کشید کریں۔ اسکی کھلنے پر پینی آن لائن معلمہ / معلم سے ان سے متعلق رہنمائی حاصل کریں۔ ☆ نظم کی پڑھائی کریں او مشکل الفاظ و ترکیب کے لیے لغت کا استعمال کریں۔ ☆ نظم کے اشعار کو سمجھیں اور ان کا مفہوم سمجھ کر مزید کی تشریح دیے گئے خاکے کی مدد سے کریں۔ تشریح کرتے ہوئے اپنی آسانی کے لیے شعر بلند کو پیرا گراف میں تقسیم کر لیں۔ طلبہ گذشتہ جماعتوں میں نظم / اغزل کی تشریح کرتے آئے ہیں ہی طریقے کو او جماعت کے معیار کو مد نظر رکھ کر تشریح کی جائے تشریح کرتے ہوئے آیت، احادیث او اشعار کی مثالیں ہی جائیں نظم کا نام ----- حمد سعر کا نام ----- مامر القادری کے لغت تشریح	ظلم حمد مقاصد طلبہ اس قابل ہیں گے کہ : 1۔ مامر القادری کے تعاف کو پڑھ کر سمجھ سکیں۔ 2۔ نظم کو پڑھ کر اس کا مفہوم سمجھ سکیں۔ 3۔ مشقی سوالات او تشریح کر سکیں	فتہ نمبر 2 4 گھنٹے

2021 – 2020

مضمون: اود گیارھویں

ذبح	طریقہ تدوین	موضوعات / مقاصد	نقشہ نمبر / وقت
	☆ نظم کی تشریح اور مشقی سوالات کے جوابات اپنے الفاظ میں تحریر کریں۔ ☆ صفحہ نمبر 16 پر دی گئی نظم او پند نظم کی تعریف او دونوں کے فرق کو بنو پڑھا جائے۔ او یا کر کے لکھیں۔		

Block 1: Mathematics Week 2

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 2 5 : 30hrs	06 Jul – Jul 11	Unit – 3 Matrices & Determinants 3.9 Elementary Row and Column Operations on a Matrix 3.10 Echelon and Reduced Echelon Forms of Matrices 3.11 System of Linear Equations. 3.11.1 Homogeneous Linear equations. 3.11.2 Non-Homogeneous Linear equations 3.12 Cramer's Rule	

Syllabus Pack Block 1 (week 2)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 2 5 : 30 Hrs	Unit – 3 Matrices & Determinants 3.9 Elementary Row and Column Operations on a Matrix 3.10 Echelon and Reduced Echelon Forms of Matrices	Read the textbook from Ex 3.4 - 3.5 (Page No. 115 – 138) to cover the desired amount of content for the week: <ul style="list-style-type: none"> Study Elementary Row and Column Operation. Comprehend and identify the examples of symmetric, skew symmetric, Hermitian and skew-Hermitian matrices. Solve the Q 1-9 of Ex 3.4. Study the upper and lower triangular matrices. Comprehend the Echelon and reduced echelon form to find the rank of a matrix. Read and apply the method to take the Rank of a matrix. Solve the Q 10 of 3.4 Study the Linear equations in matrices and relate to the topic studied in previous classes. Read/comprehend the Cramer's rule/ its use to solve the Q1 of Ex3.5. Review the method to solve the Linear equations by using matrices and solve the Q 2 of Ex 3.5. 	<ul style="list-style-type: none"> Mathematics Algebra and Trigonometry for Class XI (Punjab Curriculum and Text Book Lahore) (Page No. 115 – 138) Laptop / Tab / Smart Phone Watch the relevant videos on sabaq.pk Watch these additional videos; https://www.youtube.com/watch?v=l69YjkuUym0 https://www.youtube.com/w

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>3.11 System of Linear Equations.</p> <p>3.11.1 Homogeneous Linear equations.</p> <p>3.11.2 Non-Homogeneous Linear equations</p> <p>3.12 Crammer's Rule</p> <p>After studying these topics the students should be able to:</p> <ul style="list-style-type: none"> · perform the row and column operations on matrices · recognize the symmetric, skew symmetric, hermitian and skew hermitian matrices · recognize the echelon and reduced echelon form · find the rank of matrix 	<ul style="list-style-type: none"> · Solve the Linear equations by using echelon and reduced echelon form and solve Q 3 of Ex 3.5. · Study the Homogeneous and non-Homogeneous Linear equations and solve the Q 4 of Ex 3.5. · Study the trivial, non- trivial and unique solutions of matrices. · Solve the Q 5-6 of Ex 3.5. 	<ul style="list-style-type: none"> · atch?v=qfb0yA6xtlc https://www.khanacademy.org/math/linear-algebra/vectors-and-spaces/matrices-elimination/v/matrices-reduced-row-echelon-form-1

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none">· solve homogeneous and non-homogeneous linear equations by using matrices· solve the Linear equations by using Cramer's Rule· solve the homogeneous linear equations.		

Block 1: Physics Week 2

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 2 3 hrs	06 Jul – Jul 11	UNIT # 1 MEASUREMENT 1.1 Rounding off numbers 1.2 Precision and Accuracy 1.3 Indicating Uncertainty 1.4 Dimensions	

Syllabus Pack Block 1 (week 2)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 2	UNIT # 1 MEASUREMENT 1.5 Rounding off numbers 1.6 Precision and Accuracy 1.7 Indicating Uncertainty	Read the textbook from pgs. 8-18 to cover the desired amount of content for the week and enable yourself to: <ul style="list-style-type: none"> Identify that least count or resolution of a measuring instrument is the smallest increment measurable by it. Explain rules for rounding off numbers and finding significant figures with the help of examples given in the textbook. Study precision and accuracy with the help of examples given in the textbook. Solve examples 1.1 & 1.2. Assess that uncertainty in a derived quantity by simple addition of actual, fractional or percentage uncertainties. Explain why measurements contain some uncertainty and assess total uncertainty in the final result for the operations and cases mentioned in the textbook. Solve example 1.3 Check the homogeneity of physical equations by using dimensionality and base units Derive formulae in simple cases using dimensions 	<ul style="list-style-type: none"> Physics XI – Khyber Pakhtunkhwa Textbook Board, Peshawar pgs. 8-18 Laptop / Tab / Smart Phone Watch the relevant videos on sabaq.pk Watch these additional videos; https://www.youtube.com/watch?v=1E4GUE1har0 https://www.youtube.com/watch?v=CmVlxfV7t7g

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>1.8Dimensions</p> <p>After studying these topics the students should be able to:</p> <ul style="list-style-type: none"> · use the concept of rounding off numbers in problems/calculations. · differentiate between instruments based on their precision/accuracy · indicate uncertainty · derive formulae for dimensions in simple cases · solve and comprehend relevant exercise questions and problems 	<ul style="list-style-type: none"> · Quote answers with correct scientific notation, number of significant and units in all numerical and practical work · Solve numerical problems from the exercise related to the topics studied. · Determine the value of 'g' by free fall. <p>Solve the following questions and problems using guidance from attached online links: Examples1.4-1.6 Short Questions 5-7 Comprehensive Question 5 Numerical Problems 1.4& 1.5</p>	

Block 1: Chemistry Week 2

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 2 5 hrs 30 min	July 6 – July 11	CHAPTER 01: <u>STOCHIOMETRY</u> <ul style="list-style-type: none"> · Excess and Limiting Reactants · Identification Of Limiting Reactant In A Reaction · Amount Of Reactant Present in Excess in a Reaction · Theoretical Yield, Actual Yield and Percent Yield. · Calculation Of Theoretical Yield, Actual Yield And Percent Yield · Self Check Exercises · Topic Related Exercise Questions 	

Syllabus Pack Block 1 (week 2)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 2 5 hrs 30 min	CHAPTER 01: <u>STOCHIOMETRY</u> 1.4: Excess and Limiting Reactants 1.4.1: Identification Of Limiting Reactant In A Reaction 1.4.2: Amount Of Reactant Present in	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline · Study the Sample Example problems to understand the concepts and their calculations · Solve Self Check Exercises given in referred pages to practice problem solving /numericals related to the concepts . 	<ul style="list-style-type: none"> – Textbook of Chemistry Grade 11 National Book Foundation Islamabad as Federal Textbook Board- Islamabad (pg 12-21) – Laptop / Tab / Smart Phone / internet – Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p>

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>Excess in a Reaction</p> <p>1.5: Theoretical Yield, Actual Yield and Percent Yield.</p> <p>1.5.1: Calculation Of Theoretical Yield, Actual Yield And Percent Yield</p> <ul style="list-style-type: none"> · Self Check Exercises · Topic Related Exercise Questions <p>Students will be able to:</p> <ul style="list-style-type: none"> · identify the limiting reactant in a reaction, calculate the maximum amount of product (s) produced and the amount of any unreacted excess reagent · apply ratio concept to stoichiometric calculations · define and differentiate between the 	<p><u>Written work</u></p> <ul style="list-style-type: none"> · Students to mark and solve all topic related questions and problems given in Exercise. · All written work to be submitted and get checked by the Subject Teacher. <p><u>Let 's find out:</u></p> <p>The students to find out by themselves using internet search and record their finding on notebooks/loose sheets</p> <ul style="list-style-type: none"> · Why is it important that we learn stoichiometry? · What is the maximum percent yield theoretically possible? · What factors affect percent yield? · Does a catalyst increase the yield of products? 	<ul style="list-style-type: none"> - sabaq.pk - elearn.gov.pk · https://www.khanacademy.org/..//limiting-reagent.../limiting-reagents-and-percent-yiel... · https://study.com/.../how-to-calculate-percent-yield-definition-formula-example.html · https://www.wikihow.com/Calculate-Percent-Yield-in-Chemistry

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>theoretical and actual yield</p> <ul style="list-style-type: none">• calculate the theoretical yield and percent yield from the balanced equation, the amount of reactants and the actual yield• answer the questions related to topics		

Block 1: Biology Week 2

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 2 5 hrs 30 min	July 6 – July 11	Chapter 1 <u>Cell Structure and Functions</u> <ul style="list-style-type: none"> · Cell Organelles (Contd....) · Lysosomes · Peroxisomes And Glyoxysomes · Vacuole · Mitochondria · Plastids · Structure and Functions of Chloroplast · Centrioles · Cytoskeleton · Cilia And Flagella · Nucleus · Prokaryotic & Eukaryotic Cells 	

Syllabus Pack Block 1 (week 2)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 2 5 hrs 30 min	CHAPTER 1: <u>CELL STRUCTURE AND FUNCTIONS</u> 1.3.2: Cell Organelles (Contd....) <ul style="list-style-type: none"> · Lysosomes 	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline · Study all the figures and tables given with topics to understand the concepts. 	<ul style="list-style-type: none"> – Textbook of Biology Grade 11 National Book Foundation Islamabad as Federal Textbook Board- Islamabad (pg 18-33) – Laptop / Tab / Smart Phone / internet

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> • Peroxisomes And Glyoxysomes • Vacuole • Mitochondria • Plastids • Structure and Functions of Chloroplast • Centrioles • Cytoskeleton • Cilia And Flagella 1.3.3: Nucleus 1.4: Prokaryotic & Eukaryotic Cells • Extra reading Material • Science Titbits • Skills: Analyzing, interpreting and communication • Topic related Exercise questions <p>Student will be able to:</p> <ul style="list-style-type: none"> • explain structure and functions of different cell organelles. • draw labelled diagrams of cell organelles. • describe cytological, biochemical, physiological and 	<ul style="list-style-type: none"> • Think critically to answer questions asked in ‘Critical Thinking’ columns given with topics. • Read all interesting Extra information and ‘Science Tidbits’ boxes. • Do the tasks given in ‘Skills, Analyzing, Interpreting and communication’ boxes. <p>Written work</p> <ul style="list-style-type: none"> • Students to mark and solve all topic related questions given in Exercise . • Draw diagrams related with questions. • All written work to be submitted and get checked by the Subject Teacher. <p>Let’s find out: The students to find out by themselves using internet search and record their finding on registers/loose sheets</p> <ul style="list-style-type: none"> • What are the benefits of autophagy? • Who discovered the vacuole? • What are some examples of the types of plastids in biology? • How does chloroplast affect the function of the cell? • What performs the same function as chloroplast? • Do all eukaryotic cells have only one nucleus? 	<ul style="list-style-type: none"> – Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p> <ul style="list-style-type: none"> – sabaq.pk – elearn.gov.pk – https://www.youtube.com/watch?v=JFrXSIHma8U – https://study.com/academy/lesson/chloroplast-definition-structure-function-examples.html – https://www.khanacademy.org/test-prep/mcat/cells/eukaryotic-cells/v/the-nucleus

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>genetic aspects of the cell and its organelles</p> <ul style="list-style-type: none">· relate normal cellular structures to their functions· explain the structures and purposes of basic components of prokaryotic and eukaryotic cells,· explain the difference between prokaryotic & eukaryotic cell.· answer the topic related questions given in the exercise.		

Block 1: Computer Science Week 2

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 2 5hrs	July 6 – July 11	Chapter # 1: Overview of Computer Systems <ul style="list-style-type: none"> · Types Of Computer Software · System Software · Application Software · Internet Applications · Relevant Ex Questions at the end of Unit 	

Syllabus Pack Block 1 (week 2)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 2 5 hrs	Chapter # 1: Overview of Computer Systems Students will be able to <ul style="list-style-type: none"> · differentiate between System Software and Application Software. · identify computer hardware and software · understand the 	Recall the previous knowledge about the concept taught in previous classes. <ul style="list-style-type: none"> · Read all important definitions and topics given in textbook · Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google about the System Software and Application Software. · Gather information about Internet Applications. https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-intro-comp-4 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-intro-comp-6 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-os-1 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-os-143 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-intro-comp-4	<ul style="list-style-type: none"> – Textbook of Computer Science Grade 11 – National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 13-16 – Exercise(MCQs Short Q/A, Long Q/A) Reference Links: <ul style="list-style-type: none"> – Watch the topic related videos on sabaq.pk

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	Internet Applications.	<p>11th-1.2&v=cs-intro-comp-8 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-internet-2 https://www.youtube.com/watch?v=j6fOSfyvCNO https://www.youtube.com/watch?v=TEy5z54lplw</p> <p>Visit the above given links to</p> <ul style="list-style-type: none"> • See the different types of softwares. • See the application software and its types. • See the concept of internet applications. • Observe how to use the internet applications and what precautionary measures should be taken while using the internet applications. <p>• Written work</p> <ul style="list-style-type: none"> • After watching the videos Try to write 2-3 lines about the Internet Applications by your own. • Write the answers of Questions given at the end of chapter Q2(vii)& Q3(i) 	Solve the practice test given with topics on sabaq.pk

ہفتہ نمبر/ادف	نہم سن	نصبی مواد باب/سبق/موضوعات	چیک لسٹ (برائے طالب علم) مکمل/نا مکمل
دوسرے ہفتہ (وگھنے)	لائی 06- لائی 11	باب اول: بنیای عقائد ☆توحید (شک - اسنی زندگی پر عقیدہ توحید کے ارات) باب چہارم: تعاف مرآن و حدیث ☆مختب احادیث: 1	

سلیس پیک بلاک-1 (دوسرے ہفتہ)

ہفتہ نمبر/تدریسی گھنٹے	موضوعات/مقاصد	تدریسی ہدایات	ذرائع
دوسرے ہفتہ (وگھنے)	باب اول: بنیای عقائد ☆توحید (شک - اسنی زندگی پر عقیدہ توحید کے ارات) طلبا س قابل ہوں گے کہ: آیت مبارک کی روشنی میں شرک کے معنی و مفہوم او شرک کی اقسام کو سمجھ سکیں۔ اسنی زندگی پر عقیدہ توحید کے اسٹ پر اظہا خلیل کر سکیں۔ سبق میں موجود موضوع سے متعلقہ آیات	توحید (شک - اسنی زندگی پر عقیدہ توحید کے ارات) کی پڑھنی کریں۔ آیت مبارک کی روشنی میں شرک کے معنی و مفہوم او شرک کی اقسام کو سمجھ کر چھیں۔ "اسنی زندگی پر عقیدہ توحید کے ارات" پر زنی اظہا خلیل کریں۔ موضوع سے متعلق چند آیات کا رجمہ سمجھ کر زنی یا کریں۔ پڑھے گئے موضوعات سے متعلق مشقی سوالات کے جوابات نوٹس پر لکھیں۔	اسلامیت لازمی (11) (ص: 4- 7 + 72) کتب احادیث (صحیح ستہ) چاٹ پیپر مارکر

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر/تدریسی گھنٹے
	<ul style="list-style-type: none"> • درست تلفظ کے ساتھ حدیث مبارکہ مع ترجمہ سمجھ کر پڑھیں اور نوٹ بک پر تحریر کریں۔ • حدیث نبوی ﷺ میں بیان کردہ تعلیمات کو اپنے الفاظ میں زبانی لکھا کریں۔ • حدیث مبارکہ (عربی عبارت مع ترجمہ) چاٹ پیپر پر خوشخط لکھیں۔ 	<p>مرثی کے رجم زنی یا کر سکیں۔</p> <p>• موضوع سے متعلق مشقی سوالات کے جوابات لکھ سکیں۔</p> <p>•</p> <p><u>باب چہارم: تعاف قرآن و حدیث</u></p> <p><u>مختب احادیث: 1</u></p> <p>طلبا اس قابل ہوں گے کہ:</p> <p>• حدیث نبوی ﷺ کو سمجھ کر جملہ و تشریح کر سکیں۔</p>	

Block 1: English Week 3

# of wks / Study Hours	Week Dates	Course Content Unit /Chapter/Topics	Checklist Complete or Incomplete
Week 3 3 hrs 30 mins	July 13 - July 18	<ul style="list-style-type: none"> Applied Grammar Types of Sentences: Declarative, Interrogative, Imperative, Exclamatory & Optative sentences Unit 2: Environment and Nature Reading Selection: 2.1 It's Country for Me (story) by Patricia Demuth 	

Syllabus Pack Block 1 (week 3)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 3 3 hrs 30mins	<p>Applied Grammar Types of Sentences</p> <p>Students will be able to :</p> <ul style="list-style-type: none"> identify different kinds of Sentences: Declarative,, Imperative, Interrogative, Exclamatory& Optative sentences 	<ul style="list-style-type: none"> Refer prescribed books by Federal Board to learn about 5 types of sentences, their structure, function & use with examples. 1. Declarative sentence (statement) 2. Interrogative sentence (question) 3. Imperative sentence (command) 4. Exclamatory sentence (exclamation) 5. Optative sentences (express hope, wish, keen desire or a prayer. Generally ends with an exclamation mark) Study examples for each type & compare different types of sentences. Written work: Make notes with 10 sentences for each type of sentences. Solve online quizzes & download prepared worksheets from the internet for practice test. 	<ul style="list-style-type: none"> Complete Edition Part I Intermediate English Simple Grammar & Composition by Prof. Zia-ur-Rahman Khan Page 639 Internet to download Worksheets, Online quiz & practice test

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>Unit 2: Environment and Nature Reading Selection: 2.1 It's Country for Me (story) by Patricia Demuth</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> · read the story about life on a farm · find out the contextual meanings for better understanding of the texts read · compare and contrast with life in the cities · recognize the theme of the lesson · answer the text related questions 	<ul style="list-style-type: none"> · Reading of the story 'It's Country for me' · While reading the passage, underline new vocabulary & find contextual meanings. · Reflect on the significance of title and theme of the story. What kind of work Joel does on the farm and how he manages to go to school and helps his father as well? · Compare the life depicted in the story with life in the cities. Draw a table for comparison. · Study the inferential and analytical questions given at the end of Unit Exercise · Read the text again to find relevant key points for each answer. <p>Written work:</p> <ul style="list-style-type: none"> · Answer all Qs on loose sheets/ registers. · End of Unit Exercise to be done in your own words. 	<ul style="list-style-type: none"> · English Textbook Grade XI (KPTBP) (Pgs. 40-47)

ذبح	طریقہ تدریس	موضوعات / مقاصد	نقشہ نمبر / وقت
	<p>طیبا گزشتہ جماعتی میں خطوط نویسی کے اصل و ضوابط پڑھتے آئے ہیں</p> <p>انہیں اصول و ضوابط کے تحت دیے گئے موضوع پر خط تحریر کریں۔</p> <p>☆ اپنے شہر کے میونسپلٹی کے ایڈمنسٹریٹر کو خط لکھیں اور سہانگ بیگ کے نقصانات سے آگاہ کرتے ہوئے انہیں تلف کرنے کی تجاویز دیں۔</p>	<p>خط</p> <p>طلبا اس قابل ہوں گے کہ:</p> <p>۱۔ خط لکھیں کے اصل و ضوابط کی روشنی میں دیے گئے موضوع پر خط تحریر کر سکیں۔</p>	

Block 1: Mathematics Week 3

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 3 5: 30 hrs	Jul 13 – Jul 18	Unit – 4 Quadratic Equations 4.1 Introduction 4.1.1 Solution of Quadratic equations. 4.2 Solution of equations Reducible to the quadratic equation (Type I-IV)	

Syllabus Pack Block 1 (week 3)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 3 5 : 30 Hrs	Unit – 4 Quadratic Equations 4.1 Introduction 4.1.1 Solution of Quadratic equations. 4.2 Solution of equations Reducible to the quadratic equation (Type I-IV) After studying these topics the students should be able to: <ul style="list-style-type: none"> · solve the Quadratic equations by factorization, 	<p>Read the textbook from Ex 4.1 - 4.2 (Page No. 139 – 147) to cover the desired amount of content for the week:</p> <ul style="list-style-type: none"> · You have already studied the quadratic equations and different methods of its solution as well as solution of two linear equations at secondary level. Revise/review quadratic equation and quadratic formula to help resurface previous understanding. It is expected that you will easily understand the basic concepts specially given in Ex 4.1; · In this chapter you will learn about solutions of equations reducible to quadratic form and cube roots of unity in detail. · Solve half questions from Ex 4.1 with guidance from provided online links and the rest independently. · Discuss all types of the equations and tell the procedure to solve the equations reducible to the quadratic equation. · Solve Q1-24 of Ex 4.2. 	<ul style="list-style-type: none"> · Mathematics Algebra and Trigonometry for Class XI (Punjab Curriculum and Text Book Lahore) (Page No. 139 – 147) · Laptop / Tab / Smart Phone · Watch the relevant videos on sabaq.pk · Watch these additional videos; · https://www.youtube.com/watch?v=RQm041n5f34https://www.youtube.com/watch?v=-fYQ6A1deqc

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	completing square and quadratic formula · solve the equations reducible to the quadratic equation		

Block 1: Physics Week 3

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 3 3 : 30 hrs	Jul 13 – Jul 18	UNIT # 2 VECTORS AND EQUILIBRIUM 2.1 Vectors 2.2 Cartesian Coordinate System or Rectangular Coordinate System 2.3 Addition of Vectors 2.4 Multiplication of a Vector by a Number or Scalar 2.5 Resolution of a Vector	

Syllabus Pack Block 1 (week 3)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 3	UNIT # 2 VECTORS AND EQUILIBRIUM 2.1 Vectors 2.2 Cartesian Coordinate System or Rectangular Coordinate System 2.3 Addition of Vector 2.4 Multiplication of a Vector by a Number or Scalar 2.5 Resolution of a Vector	Read the textbook from pgs. 25-32 to cover the desired amount of content for the week and enable yourself to: <ul style="list-style-type: none"> · Identify and use rectangular coordinate system also known as Cartesian coordinate system. The rectangular coordinate system consists of two real number lines that intersect at a right angle. The horizontal number line is called the x-axis, and the vertical number line is called the y-axis. These two number lines define a flat surface called a plane, and each point on this plane is associated with an ordered pair of real numbers (x, y). The first number is called the x-coordinate, and the second number is called the y-coordinate. The intersection of the two axes is known as the origin, which corresponds to the point $(0, 0)$. · Solve example 2.1. 	<ul style="list-style-type: none"> · Physics XI – Khyber Pakhtunkhwa Textbook Board, Peshawar pgs. 25-32 · Laptop / Tab / Smart Phone · Watch the relevant videos on sabaq.pk · Watch these additional videos; · https://www.youtube.com/watch?v=1G5E_x0MgLc · https://www.youtube.com/watch?v=mVrCoE32orc

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>After studying these topics the students should be able to:</p> <ul style="list-style-type: none"> · use previous knowledge of rectangular coordinate system and describe the Cartesian coordinate system. · explain resultant vectors, vector addition, vector subtraction, unit vector, null vector and equal vectors. · determine the sum of vectors using head to tail rule · represent a vector into two perpendicular components. · determine the sum of vectors using perpendicular components · explanation of position vector. · demonstration of vector addition by rectangular components. 	<ul style="list-style-type: none"> · Explain resultant vectors, vector addition, vector subtraction, unit vector, null vector and equal vectors. · Determine the sum of vectors using head to tail rule. Vector addition will be used questions wherever a sum two or more vectors is required to be calculated.(plz check the syntax of this sentence) · Represent a vector into two perpendicular components (along x and y axis). · Determine the sum of vectors using perpendicular components. This method is more mathematical in nature and is practically efficient when more than vectors are required to be summed as opposed to head to tail rule which more graphical in nature. · Explain position vector. · Demonstrate vector addition by rectangular components. 	

Block 1: Chemistry Week 3

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 3 5 hrs 30 min	July 13 – July 18	CHAPTER 02: <u>ATOMIC STRUCTURE</u> <ul style="list-style-type: none"> · Discharge Tube Experiments · Main Sub-Atomic Particles · Positive Rays Or Canal Rays · Discovery Of Neutrons (By James Chadwick 1932) · The Discovery Of Nucleus (Rutherford's Experiment, 1910-11) · Properties Of Three Fundamental Particles · Bohr's Atomic Model And Its Applications · Derivation Of Radius Of An Orbit Of An Atom · Derivation Of Energy Of An Orbit · Derivation Of Wave Number (ν) · Defects Of Bohr's Atomic Model · Self-Check Exercises · Topic Related Exercise Questions 	

Syllabus Pack Block 1 (week 3)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 3 5 hrs 30 min	CHAPTER 02: <u>ATOMIC STRUCTURE</u> <ul style="list-style-type: none"> · Introduction 2.1: Discharge Tube 	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline 	<ul style="list-style-type: none"> – Textbook of Chemistry Grade 11 National Book Foundation Islamabad as Federal Textbook Board- Islamabad (pg 22-39, pg 51-53)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>Experiments</p> <p>2.1.1: Main Sub-Atomic Particles</p> <p>2.1.2: Positive Rays Or Canal Rays</p> <p>2.1.3-: Discovery Of Neutrons (By James Chadwick 1932)</p> <p>2.1.4: The Discovery Of Nucleus (Rutherford's Experiment, 1910-11)</p> <p>2.1.5: Properties Of Three Fundamental Particles</p> <p>2.2: Bohr's Atomic Model And Its Applications</p> <p>2.2.1: Derivation Of Radius Of An Orbit Of An Atom</p> <p>2.2.2: Derivation Of Energy Of An Orbit</p> <p>2.2.3: Derivation Of Wave Number (ν)</p>	<ul style="list-style-type: none"> · Study the sample example problems to understand the concepts and their calculations · Solve Self Check Exercises given in referred pages to practice problem solving related to the concepts. <p><u>Written work</u></p> <ul style="list-style-type: none"> · Students to mark and solve all topic related questions and problems given in Exercise · All written work to be submitted and get checked by the Subject Teacher. <p><u>Let 's find out:</u> The students to find out by themselves using internet search and record their finding on notebooks/loose sheets</p> <p>Let the students find out:</p> <ul style="list-style-type: none"> · What is the value of Bohr's radius in SI system? · How does the idea of quantized energy apply to Bohr atomic model? · What were the problems with Bohr's model? · Is Bohr's model still valid today? <p>How is Schrodinger's model different from Bohr's model?</p>	<ul style="list-style-type: none"> – Laptop / Tab / Smart Phone / internet – Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p> <ul style="list-style-type: none"> – sabaq.pk – elearn.gov.pk · https://www.britannica.com/science/Bohr-atomic-model · https://chemistrybytes.com/welcome/concepts/.../bohrs-model-of-atom-and-equation · https://slideplayer.com/slide/4178869

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>2.2.4: Defects Of Bohr's Atomic Model</p> <ul style="list-style-type: none">· Self-Check Exercises· Topic Related Exercise Questions <p>Students will be able to:</p> <ul style="list-style-type: none">· describe the importance of studying the atomic structure· explain the experimental setup for discovery of cathode rays and positive rays· compare the properties of different sub-atomic particles· describe the orbitals of hydrogen atom in order of increasing energy.· summarize the Bohr's atomic theory· use the Bohr's theory for		

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>calculating the radii of orbits</p> <ul style="list-style-type: none">· describe the concepts of orbitals· distinguish among principal energy levels, energy sub levels and atomic orbitals· use the Bohr's atomic model for calculating energy of electron in a given orbit of H-atom· relate energy equation to frequency, wave length and wave number of radiation emitted or absorbed by electron· solve problems related to Bohr's theory		

Block 1: Biology Week 3

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 3 5 hrs 30 min	July 13 – July 18	CHAPTER 2: <u>BIOLOGICAL MOLECULES</u> <ul style="list-style-type: none"> · Introduction · Biological Molecules in Protoplasm · Chemical Composition of Protoplasm · Condensation and Hydrolysis · Importance of Water · Properties of water · Carbohydrates · Classification of Carbohydrates · Monosaccharides · Oligosaccharides · Polysaccharides · Proteins · Structure of Proteins · Significance of Amino Acid Sequence · Classification of Proteins · Role of Proteins 	

Syllabus Pack Block 1 (week 3)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 3 5 hrs 30 min	CHAPTER 2: <u>BIOLOGICAL</u> <u>MOLECULES</u>	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions 	<ul style="list-style-type: none"> – Textbook of Biology Grade 11 National Book Foundation Islamabad as Federal

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> · Introduction 2.1: Biological Molecules in Protoplasm 2.1.1: Chemical Composition of Protoplasm 2.1.2: Condensation and Hydrolysis 2.2: Importance of Water 2.2.1: Properties of water 2.3: Carbohydrates 2.3.1: Classification of Carbohydrates · Monosaccharides · Oligosaccharides · Polysaccharides 2.4: Proteins 2.4.1: Structure of Proteins 2.4.2: Significance of Amino Acid Sequence 2.4.3: Classification of Proteins 2.4.4: Role of Proteins · Science Titbits · Critical Thinking · Tables · Skills: Analyzing, 	<p>and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline</p> <ul style="list-style-type: none"> · Study all the figures and tables given with topics to understand the concepts. · Think critically to answer questions asked in ‘Critical Thinking’ columns given with topics. · Read all interesting Extra information and ‘Science Tidbits’ boxes. · Do the tasks given in ‘Skills, Analyzing, Interpreting and communication’ boxes. <p><u>Written work</u></p> <ul style="list-style-type: none"> · Students to mark and solve all topic related questions given in Exercise . · Draw diagrams related with questions. · All written work to be submitted and get checked by the Subject Teacher. <p><u>Let ‘s find out:</u></p> <p>The students to find out by themselves using internet search and record their finding on registers/loose sheets</p> <ul style="list-style-type: none"> · What is the difference between cytoplasm and protoplasm? · What are important functions of cytoplasm? · What is the pH of cytoplasm? · Compare the characteristics of different types of carbohydrates. · Compare and contrast dipeptides with polypeptides. 	<p>Textbook Board-Islamabad (pg 38-56)</p> <ul style="list-style-type: none"> – Laptop / Tab / Smart Phone / internet – Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p> <ul style="list-style-type: none"> – sabaq.pk – elearn.gov.pk – https://www.youtube.com/watch?v=pCyluNAjmNs – https://www.youtube.com/watch?v=BxQ_zZBk6B4 – https://byjus.com/chemistry/classification-of-carbohydrates-and-its-structure/ – https://www.youtube.com/watch?v=FkjilyNaT3M – https://www.khanacademy.org/test-prep/mcat/biomolecules/amino-acids-and-proteins1/v/four-levels-of-protein-structure

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>Interpreting and communication</p> <ul style="list-style-type: none"> • Topic related Exercise Questions <p>Student will be able to</p> <ul style="list-style-type: none"> • define biological molecules and its different types in protoplasm • distinguish between micro and macro bio elements • explain the chemical composition of protoplasm • differentiate between condensation and hydrolysis • explain importance and different properties of water affecting different functions in living body • draw and explain the model of Hydrogen Bonding • define carbohydrates • explain classification of carbohydrates • describe properties, structures and functions of different 		

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>types of carbohydrates i.e. monosaccharides, oligosaccharides and polysaccharides</p> <ul style="list-style-type: none">• explain the structure, function, importance and formation of proteins in living body• explain how the genetic code stored within DNA determines the protein that will form• classify proteins as globular and fibrous proteins• list examples and roles of structural and functional proteins• Answer all the topic related questions given in the exercise		

Block 1: Computer Science Week 3

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 3 5hrs	July 13 – July 18	Chapter # 1: Overview of Computer Systems <ul style="list-style-type: none"> · Social Media network Applications · Licensed Software, Open Source Software, Shareware and Freeware · Firmware · Internet Application Security · Relevant Ex Questions at the end of Unit 	

Syllabus Pack Block 1 (week 3)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 3 5 hrs	Chapter # 1: Overview of Computer Systems Students will be able to <ul style="list-style-type: none"> · understand the terms licensed software, open source software, shareware and freeware. · learn firmware and internet application security. 	Recall the previous knowledge about the concept taught in previous classes. <ul style="list-style-type: none"> · Read all important definitions and topics given in textbook · Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google about the Licensed Software. Open source software, shareware and freeware · Gather information about Internet Applications Security. https://www.youtube.com/watch?v=1xZYTyaqbpU https://www.youtube.com/watch?v=rn5aFJH9Gno https://www.youtube.com/watch?v=t-baXpdb5Fs https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-intro-comp-11 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.2&v=cs-intro-comp-12	<ul style="list-style-type: none"> – Textbook of Computer Science Grade 11 – National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 16-18 – Exercise(MCQs Short Q/A, Long Q/A) Reference Links: <ul style="list-style-type: none"> – Watch the topic related videos on sabaq.pk

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
		Visit the above given links to <ul style="list-style-type: none"> · See the licensed software, open source software, shareware and freeware. · See the difference between shareware and freeware software's. · Observe the concept of firmware. · See the internet application security. · See how to use the internet application security. · Written work · After watching the videos Try to write 2-3 lines about the Internet Application security by your own. · Write the answers of Questions given at the end of chapter Q2(viii & ix) 	Solve the practice test given with topics on sabaq.pk

ہفتہ نمبر/ادوت	نہم سن	نصابی مواد باب/سبق/موضوعات	چیک لسٹ (برائے طالب علم) مکمل/نا مکمل
تیسرا ہفتہ (و گھنٹے)	لائی 13 - لائی 18	باب اول: بنیای عقائد ☆رسالت (مفہوم ختم نبوت) باب چہارم: تعاف قرآن و حدیث ☆منتخب آیت: 2	

سلیبس پیک بلاک-1 (تیسرا ہفتہ)

ہفتہ نمبر/تدریسی گھنٹے	موضوعات/مقاصد	تدریسی ہدایات	ذرائع
تیسرا ہفتہ (و گھنٹے)	باب اول: بنیای عقائد ☆رسالت (مفہوم ختم نبوت) طلبا اس قابل ہوں گے کہ: رسالت کے مفہوم او امیہا کرم کی ضرورت کو سمجھ سکیں۔ آیت مبارکہ کی روشنی میں "رسالت محمدی ﷺ" خصوصیات " او "انتم نبوت" پر زنی اظہار خلیل کریں۔ موضوع سے متعلق چند آیت کا رحمہ سمجھ کر زنی یا کریں۔ ہم گئے موضوعات سے متعلق مشقی سوالات کے جوابات	رسالت (مفہوم ختم نبوت) کی پڑھنی کریں۔ رسالت کے مفہوم او امیہا کرم کی ضرورت او خصوصیات کو سمجھ کر پڑھیں۔ آیت مبارکہ کی روشنی میں "رسالت محمدی ﷺ" خصوصیات " او "انتم نبوت" پر زنی اظہار خلیل کریں۔ موضوع سے متعلق چند آیت کا رحمہ سمجھ کر زنی یا کریں۔ ہم گئے موضوعات سے متعلق مشقی سوالات کے جوابات	اسلامیت لازمی (11) (ص: 7 - 12 + 68) قرآن مجید مع رحمہ تفسیر قرآن چاٹ پیپر

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر/ تدریسی گھنٹے
	<p>نوٹ بکس پر لکھیں۔</p> <p>درست تلفظ او فرات کے ساتھ آیت مبارکہ مع جہم و تشریح سمجھ کر پڑھیں او نوٹ بکس پر تحریر کریں۔</p> <p>آیت مبارکہ کی تشریح اپنے الفاظ میں زنی لیا کریں۔</p> <p>آیت مبارکہ کی روشنی میں " رسل اللہ ﷺ کی اتباع پر زنی اظہار خلیل کریں۔</p> <p>آیت مبارکہ کو مرید سمجھنے کے لیے "تفسیر قرآن" کا مطالعہ کریں۔</p> <p>چاٹ پیپر / نوٹ بکس پر آیت مبارکہ کی خطاطی کریں۔ (سر می)</p>	<p>سبق کی روشنی میں مشقی سوالات کے جوابات لکھ سکیں۔</p> <p><u>باب چہارم: تعاف فرین و حدیث</u></p> <p><u>مختار آیت : 2</u></p> <p>(سورۃ الاحزاب: 21)</p> <p>طلباس قابل ہیں گے کہ:</p> <p>آیت مبارکہ کو سمجھ کر جہم و تشریح کر سکیں۔</p>	

Block 1: English Week 4

# of wks / Study Hours	Week Dates	Course Content Unit /Chapter/Topics	Checklist Complete or Incomplete
Week 4 3 hrs 30 mins	July 20 - July 25	<ul style="list-style-type: none"> · Unit 2: Environment and Nature Reading Selection: 2.2 Our Environment (essay) by Frank S. Skarpitti · Applied Grammar: Parts of Speech – Adjective 	

Syllabus Pack Block 1 (week 4)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 4 3 hrs 30 mins	<p>Unit 2: Environment and Nature Reading Selection: 2.2 Our Environment (essay) by Frank S. Skarpitti</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> · read the essay · define ecosystem · highlight the environmental problems · identify our duties / obligations regarding the environment · answer the given questions · write a summary 	<ul style="list-style-type: none"> · Reading of the text. · Using internet to find about: 1. Five of the world’s biggest environmental issues/ problems, their cause & effect. 2. Three R’s (Reduce, Reuse and Recycle) · Think about: 1. How any change in the delicate balance of ecosystem can have far reaching consequences? 2. How these environmental problems can be solved? 3. What are our roles / moral, social & ethical obligations as an individual safeguarding the environment? · Written work · Answering the end of Ex. questions based on text. · Follow summary writing guidelines for summarizing the essay. 	<ul style="list-style-type: none"> · English Textbook Grade XI (KPTBP) (Pgs. 54 -59) · Internet for research

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>Applied Grammar: Parts of Speech – Adjective</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> · define adjective · identify adjective, its types & order in sentences · use the base knowledge to solve the practice tests efficiently 	<ul style="list-style-type: none"> · Revise adjectives, its types & order of adjectives used in sentences from the prescribed grammar books. · Study the following concepts with examples. · For resource use textbook pages 18, 19 and Unit 4.3 Language Study page 104. · Attempt textbook Exercise on pages 105, 106 · Watch the relevant video lessons on sabaq foundation & solve practice test on the topic · Tap e-learn Punjab & any other reliable, viable source for better learning & online quizzes, printable worksheets & practice test on the topic. 	<ul style="list-style-type: none"> · Textbook pages 18-19 and Unit 4.3 Language Study page 104, 105, 106. · High School English Grammar & Composition Multicolour Edition by Wren & Martin (2016 Edition) · Complete Edition Part I Intermediate English Simple Grammar & Composition by Prof. Zia-ur-Rahman Khan Pages 610-617 · For order of adjectives, see chapter 2, Grammar section 2.8 on the link below https://sabaq.pk/video-page.php?sid=Federal-english-10th-2.8&v=e-9-10-intro-order-adjectives

چیک لسٹ مکمل / آہل کام	نصیبی مواد موضوع: سبق / نظم / اغزل کا نام	ہفتے / دن	ہفتے کا مطالقی وقت
	نظریہ پاکستان مکملہ نگاری	20 لائی - 25 لائی	تہ نمبر 4 4 گھنٹے

سلیبس میں ایک بلاک 1 (جو تھا ہفتہ)

ذکر	طریقہ تدبیر	موضوعات / مقاصد	فہتہ نمبر / وقت
اردو (لازمی) گیارھویں عت کے لیے صفحت 15 تا 21	☆ طلباء ڈاکٹر غلام مصطفیٰ کے تعاف کو بغور پڑھیں او جو نکات سمجھ نہ آئیں، انہیں خط کشید کریں اسکل کھلنے یا اپنی آن لائن معلمہ معلم سے رہنمائی حاصل کریں۔ ☆ سبق کی پڑھائی کریں۔ ☆ مشکل الفاظ کے لیے لغت کا استعمال کیا جائے۔ ☆ مشقی سوالات کے جوابات سبق میں سے تلاش کر کے اپنے لفظ میں تحریر کیے جائیں۔ ☆ کسی ایک پیراگراف کی تشریح مندرجہ ذیل نکات کی مدد سے کریں۔ تشریح کا مکمل طریقہ سبق مرازمہ سعید میں بتا دیا گیا ہے۔ • سبق کا نام ----- نظریہ پاکستان • مصنف کا نام ----- ڈاکٹر غلام مصطفیٰ • سبق و سبق • حل لغت ----- تشریح	نظریہ پاکستان طلباء اس قابل ہیں گے کہ : 1 ڈاکٹر غلام مصطفیٰ کے تعاف کو پڑھ کر سمجھ سکیں۔ 2 سبق کی پڑھائی کر سکیں۔ 3 مشقی سوالات کے جوابات لکھ سکیں۔ 4 نثر پائے کی تشریح کر سکیں۔	فہتہ نمبر 4 4 گھنٹے

ذبح	طریقہ تدبیریں	موضوعات / مقاصد	نفتہ نمبر / وقت
اردو (لازمی) گیارھویں عت کے لیے صفحہ نمبر 21 قوعد کی کتب	طلبا گزشتہ جموعتی میں مکلمہ لکھتے آئے ہیں گزشتہ جماعت میں پڑھے گئے مکلمہ کے اصول و ضابطہ کو مد نظر رکھتے ہوئے دیے گئے موضوع پر معلومی او کچسپ مکلمہ تحریر کریں۔ و دوستی او طلباء کے درمیان نظریہ پاکستان او موجودہ مسائل کے درمیان مکلمہ تحریر کریں۔	مکالمہ نویسی	

Block 1: Mathematics Week 4

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 4 5 hrs	Jul 20 – Jul 25	Unit – 4 Quadratic Equations 4.2 Solution of equations Reducible to the quadratic equation (Type V) 4.3 Three cube roots of unity 4.3.1 Properties of Cube Roots of Unity. 4.4 Four Fourth roots of unity 4.4.1 Properties of Four Fourth roots of unity 4.5 Polynomial Function. 4.6 Theorems 4.7 Synthetic Division	

Syllabus Pack Block 1 (week 4)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 4 5 Hrs	Unit – 4 Quadratic Equations 4.2 Solution of equations Reducible to the quadratic equation (Type V) 4.3 Three cube roots of unity 4.3.1 Properties of Cube Roots of Unity. 4.4 Four Fourth roots of unity	Read the textbook from Ex 4.3 - 4.5 (Page No. 147 – 161) to cover the desired amount of content for the week: <ul style="list-style-type: none"> · Study the types of the radical equations and the methods to solve these types of the equations. · Comprehend the concept of extraneous roots. · Solve Q1-12 of Ex 4.3. · Read and comprehend three cube roots of unity. · Derive the cube roots and tell the students about symbols ω(omega) and ω^2. · Reiterate the properties of cube roots of unity. · Read fourth cube roots of unity and derive the fourth roots of unity. · Study the properties of fourth roots of unity. · Solve Q1-8 of Ex 4.4. 	<ul style="list-style-type: none"> · Mathematics Algebra and Trigonometry for Class XI (Punjab Curriculum and Text Book Lahore) (Page No. 147 – 161) · Laptop / Tab / Smart Phone · Watch the relevant videos on sabaq.pk · Watch these additional videos; https://www.youtube.com/watch?v=2NmKWRYPsMA

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>4.4.1 Properties of Four Fourth roots of unity</p> <p>4.5 Polynomial Function.</p> <p>4.6 Theorems</p> <p>4.7 Synthetic Division After studying these topics the students should be able to:</p> <ul style="list-style-type: none"> · solve the equations reducible to the quadratic equation · find the cube roots of unity · find the fourth roots of unity · describe and apply the properties of fourth roots of unity · solve the polynomial functions · solve questions by using factor theorem, remainder theorem and synthetic division 	<ul style="list-style-type: none"> · You have already studied polynomial functions and factorization of polynomial function of various types by different methods including remainder and factor theorems at SSC level. · Revise polynomial functions, factorization of polynomial function, remainder theorem and factor theorem to assess your previous understanding. · Read and comprehend the polynomial functions, factor theorem, remainder theorem and synthetic division. · Solve Q1-16 of Ex 4.5. 	<ul style="list-style-type: none"> · https://www.youtube.com/watch?v=xpUGX8fZuhw · https://www.youtube.com/watch?v=FxHWoUOq2iQ

Block 1: Physics Week 4

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 4 3 hrs	Jul 20 – Jul 25	UNIT # 2 VECTORS AND EQUILIBRIUM 2.1 Addition of Vectors by Rectangular Components 2.2 Product of Vectors <ul style="list-style-type: none"> · Scalar product · Vector product 	

Syllabus Pack Block 1 (week 4)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 4	UNIT # 2 VECTORS AND EQUILIBRIUM 2.6 Addition of Vectors by Rectangular Components 2.7 Product of Vectors <ul style="list-style-type: none"> · Scalar product · Vector product Examples 2.1-2.3 Short Questions i-iii Comprehensive Questions i-v Numerical Problems i-v	Read the textbook from pgs. 32-36 to cover the desired amount of content for the week and enable yourself to: <ul style="list-style-type: none"> · Solve examples 2.2, 2.3 & numerical problems i-v from the exercise. · Revise vectors and multiplication of a number by a vector. · Describe scalar product of two vectors in term of angle between them · Explain of vector or cross product of vectors and derivation of formula to find out the cross product of two vectors. · Describe vector product of two vectors in term of angle between them · state the method to determine the direction of vector product of two vectors · Identify the use of long handle spanner to turn a stubborn bolt. 	<ul style="list-style-type: none"> · Physics XI – Khyber Pakhtunkhwa Textbook Board, Peshawar pgs. 32-36 · Laptop / Tab / Smart Phone · Watch the relevant videos on sabaq.pk · Watch these additional videos; · https://www.youtube.com/watch?v=eYF_QVdS3yY

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
		Solve the following questions and problems using guidance from attached online links: Short Questions i-iii Comprehensive Questions i-v Numerical Problems i-v	

Block 1: Chemistry Week 4

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 4 5 hrs 30 min	July 20 – July 25	<p><u>CHAPTER 02:</u></p> <p>ATOMIC STRUCTURE</p> <ul style="list-style-type: none"> · Hydrogen Spectrum · Plank's Quantum Theory · X-Rays · Atomic Number And X-Rays · X-Rays, Atomic Numbers And Orbital Structure · Uses Of X-Rays · The Quantum Numbers And Orbitals · Shells, Sub-shells Or Orbitals · Electronic Configuration. · The Relative Energies Of Atomic Orbitals · Rules For Distribution Of Electrons In Different Orbitals · Magnetic Properties · Self Check Exercise Questions · Topic Related Questions from Exercise. 	

Syllabus Pack Block 1 (week 4)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 4 5 hrs 30 min	<p><u>CHAPTER 02:</u> ATOMIC STRUCTURE</p> <p>2.2.5: Hydrogen Spectrum</p>	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline 	<p>– Textbook of Chemistry Grade 11 National Book Foundation Islamabad as Federal Textbook Board- Islamabad (pg 39-53)</p>

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>2.3: Plank's Quantum Theory</p> <p>2.4: X-Rays</p> <p>2.4.1: Atomic Number And X-Rays</p> <p>2.4.2: X-Rays, Atomic Numbers And Orbital Structure</p> <p>2.4.3: Uses Of X-Rays</p> <p>2.5: The Quantum Numbers And Orbitals</p> <p>2.5.1: Shells, Sub-shells Or Orbitals</p> <p>2.6: Electronic Configuration.</p> <p>2.6.1: The Relative Energies Of Atomic Orbitals</p> <p>2.6.2: Rules For Distribution Of Electrons In Different Orbitals</p>	<ul style="list-style-type: none"> · Study the sample Examples to understand the concepts and their calculations <p><u>Written work</u></p> <ul style="list-style-type: none"> · Students to mark and solve all topic related questions and problems given in Exercise . · All written work to be submitted and get checked by the Subject Teacher. <p><u>Let 's find out:</u></p> <p>The students to find out by themselves using internet search and record their finding on notebooks/loose sheets</p> <ul style="list-style-type: none"> · Calculate the diameter of a hydrogen atom with $n=600$ · How can particles in an atom be described? · If number of electrons of $^{37}\text{X}^-$ and $_{20}\text{Y}^{+2}$ are equal; find number of neutrons of $^{37}\text{X}^-$ · How many x-rays are safe in a lifetime? · Do X- rays occur naturally? 	<ul style="list-style-type: none"> – Laptop / Tab / Smart Phone / internet – Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p> <ul style="list-style-type: none"> – sabaq.pk – elearn.gov.pk – https://en.wikipedia.org/wiki/Hydrogen_spectral_series – https://chemistry.tutorvista.com/inorganic-chemistry/hydrogen-spectrum.html

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>2.6.3: Magnetic Properties</p> <ul style="list-style-type: none">· Self Check Exercise Questions· Topic Related Questions From Exercise. <p>Students will be able to:</p> <ul style="list-style-type: none">· describe the relationship between the properties of electromagnetic waves and their practical applications· relate the discrete line spectrum of hydrogen to energy levels of electrons in the H-atom· explain the significance of quantized energies of electrons· explain production, properties, types and uses of X-rays· develop scientific understanding of		

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>the spectral lines</p> <ul style="list-style-type: none">· use the Aufbau principle, the Pauli Exclusion Principle and Hund's rule to write the electronic configuration of elements· Solve topic related exercise questions		

Block 1: Biology Week 4

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 4 5 hrs 30 min	July 20 – July 25	CHAPTER 2: <u>BIOLOGICAL MOLECULES</u> <ul style="list-style-type: none"> • Lipids • Classification of Lipids • Nucleic Acid • Chemical Structure of Nucleic Acids • Chemical Nature and Role of ATP And NAD • Watson And Crick Model of DNA • Concept of Gene • Ribonucleic Acid (RNA) • Conjugated Molecules 	

Syllabus Pack Block 1 (week 4)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 4 5 hrs 30 min	CHAPTER 2: <u>BIOLOGICAL MOLECULES</u> 2.5: Lipids 2.5.1: Classification of Lipids 2.6: Nucleic Acid 2.6.1: Chemical Structure of Nucleic Acids 2.6.2: Chemical Nature	<ul style="list-style-type: none"> • Watch the topic related videos on sabaq.pk and e learn and other recommended websites. • Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline • Study all the figures and tables given with topics to understand the concepts. • Think critically to answer questions asked in ‘Critical Thinking’ columns given with topics. • Read all interesting Extra information and ‘Science 	<ul style="list-style-type: none"> – Textbook of Biology Grade 11 National Book Foundation Islamabad as Federal Textbook Board- Islamabad (pg 57-73) – Laptop / Tab / Smart Phone / internet – Self-Check Exercises <p>Reference Links: Watch the topic related videos</p>

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>and Role of ATP And NAD</p> <p>2.6.3:Watson And Crick Model of DNA</p> <p>2.6.4: Concept of Gene</p> <p>2.6.5: Ribonucleic Acid (RNA)</p> <p>2.7: Conjugated Molecules</p> <ul style="list-style-type: none"> • Tables • Science, Technology and Society connection • Science Titbits • Skills: Analyzing, Interpreting and communication <p>Ø Exercise</p> <p>Student will be able to</p> <ul style="list-style-type: none"> • explain the classification, structure, function, importance and formation of lipids in living body • describe the composition of nucleotide • describe the structure and role of ATP and NAD 	<p>Tidbits' boxes.</p> <ul style="list-style-type: none"> • Do the tasks given in 'Skills, Analyzing, Interpreting and communication' boxes. <p><u>Written work</u></p> <ul style="list-style-type: none"> • Students to mark and solve all topic related questions given in Exercise . • Draw diagrams related with questions. • All written work to be submitted and get checked by the Subject Teacher. <p><u>Let 's find out:</u></p> <p>The students to find out by themselves using internet search and record their finding on registers/loose sheets</p> <ul style="list-style-type: none"> • Explain the different forms of lipids with some examples • Why is the term lipid used to describe fats? • What are things to think about when describing triglycerides? • True or false? All fats and oils contain a mixture of the three types of fatty acids. • How does cholesterol function in the body? 	<p>on</p> <ul style="list-style-type: none"> – sabaq.pk – elearn.gov.pk – https://www.youtube.com/watch?v=4AzHoPe48Yg – https://byjus.com/biology/lipids/ – https://www.youtube.com/watch?v=0IZRASHqft0 – https://www.youtube.com/watch?v=apaP9a079po – https://www.youtube.com/watch?v=Y4p6jhFaru4

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none">· outline the examples of ATP and NAD· describe the molecular level structure of nucleotide· explain the structures and functions of DNA and RNA· describe how RNA, DNA and proteins are synthesized· distinguish between three types of RNA in term of structures and roles· explain the formation and function of conjugated molecules· answer all the topic related questions given in the exercise		

Block 1: Computer Science Week 4

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 4 5hrs	July 20 – July 25	Chapter # 1: Overview of Computer Systems <ul style="list-style-type: none"> · Computer Hardware · Input Devices · Output Devices · Relevant Ex Questions at the end of Unit 	

Syllabus Pack Block 1 (week 4)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 4 5 hrs	Chapter # 1: Overview of Computer Systems Students will be able to <ul style="list-style-type: none"> · identify various input/output devices and understand their working principles. · understand the concept of hardcopy and softcopy. · understand the working of Printers 	Recall the previous knowledge about the concept taught in previous classes. <ul style="list-style-type: none"> · Read all important definitions and topics given in textbook · Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google about the Input and Output Devices. https://sabaq.pk/video-page.php?sid=federalcomputer%20science-11th-1.3&v=cs-intro-comp-14 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-55 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-56 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-64 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-63 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-57 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-60	<ul style="list-style-type: none"> – Textbook of Computer Science Grade 11 – National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 18-25 – Exercise(MCQs Short Q/A, Long Q/A) Reference Links: <ul style="list-style-type: none"> – Watch the topic related videos on sabaq.pk Solve the practice test given with topics on sabaq.pk

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	and Plotters. . .	<p>https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-61 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-72 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-1.3&v=cs-comp-hw-79</p> <p>Visit the above given links to</p> <ul style="list-style-type: none"> • See the function of input and output devices. • See the working and importance of I/O Processor. • See how a keyboard is divided into different parts. • See how mouse works, what is the difference between a typical and optical mouse. • See the working of microphone and problems of speech recognition system. • See the working and function of digital cameras and scanners. • See the different types of scanners and their use at different places. • See the different color schemes and pixels combination of different monitors. • See the Basic diagram of a CRT monitors. • See the difference between old CRT and flat screen monitors. • See the features of different character printers. • See the working of line and page printers. • See the difference between impact and non-impact printers. • See the function of plotters and its different types. . <ul style="list-style-type: none"> • Written work • Write the answers of Questions given at the end of chapter Q2(xii,xiii,xiv & xv) Q3(ii,iii,iv,v) 	

ہفتہ نمبر/ادب	نہم سن	نصابی مواد باب/سبق/موضوعات	چیک لسٹ (برائے طالب علم) مکمل/نا مکمل
پوتھا ہفتہ (وگھنے)	لائی 20 - لائی 25	باب اول: بنیای عقائد ☆ ملائکہ + آسنی کتہیں (تعاف - مرن مجید کی خصوصیات) باب چہارم: تعاف مرن و حدیث ☆ منتخب احادیث: 2	

سلیس پیک بلاک-1 (پوتھا ہفتہ)

ہفتہ نمبر/تدریسی گھنٹے	موضوعات/مقاصد	تدریسی ہدایات	ذرائع
پوتھا ہفتہ (وگھنے)	باب اول: بنیای عقائد ☆ ملائکہ + آسنی کتہیں (تعاف - مرن مجید کی خصوصیات) طلباس قابل ہوں گے کہ: • آیت مبارک کی روشنی میں ملائکہ پر ایمان لانے کے بارے میں سمجھ سکیں۔ • چا مشہو آسنی کتابوں کے بارے میں پڑھ سکیں۔ • مرن مجید کی خصوصیت پر اظہارِ خیال کر	• سبق 'ملائکہ + آسنی کتابیں' کی پڑھائی کریں۔ • آیت مبارک کی روشنی میں ملائکہ اور آسنی کتابوں پر ایمان لانے کے متعلق سمجھ کر چھپیں۔ • "مرن مجید کی خصوصیت" پر زنی اظہارِ خیال کریں۔ • موضوعات سے متعلق چند آیت کا جہہ سمجھ کر زنی یا کریں۔ • پڑھے گئے موضوعات سے متعلق مشقی سوالات کے جوابات نوٹ بکس پر لکھیں۔	• اسلامیت لازمی (11) (ص: 13- 15 + 72) • کتب احادیث (صحیح ستہ)

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر/ تدریسی گھنٹے
	<ul style="list-style-type: none"> • درست تلفظ کے ساتھ حدیث مبارکہ مع ترجمہ سمجھ کر پڑھیں۔ • حدیث نبوی ﷺ تشریح اپنے الفاظ میں نوٹ بک پر لکھیں۔ • حدیث نبوی ﷺ روشنی میں اظہار خلیل کریں: "اعلیٰ اخلاق کی اہمیت" • حدیث نبوی ﷺ میں بلیک کردہ تعلیمت کو اپنے الفاظ میں زنی لینا کریں • احادیث کی کتب "صحیح ستہ" یا کسی بھی حدیثی کتب کا مطالعہ کریں اور "اخلاق" کے متعلق حدیث مبارکہ تلاش کر کے حوالے کے تھلا نوٹس پر لکھیں۔ (سر می) 	<p>سکین۔</p> <ul style="list-style-type: none"> • موضوع سے متعلق مشقی سوالات کے جوابت لکھ سکین۔ <p>باب چہارم: تعاف فرآن و حدیث</p> <p>منتخب احادیث: 2</p> <p>طلبا اس قابل ہوں گے کہ:</p> <ul style="list-style-type: none"> • حدیث نبوی ﷺ کو سمجھ کر جمعہ و تشریح کر سکین۔ • حدیث نبوی ﷺ روشنی میں علیٰ اخلاق کی اہمیت کے بارے میں جان سکین 	

Block 1: English Week 5

# of wks / Study Hours	Week Dates	Course Content Unit /Chapter/Topics	Checklist Complete or Incomplete
Week 5 4 hrs	July 27 – Aug 01	<ul style="list-style-type: none"> · Unit 2: Environment and Nature Reading Selection: 2.3 Tears of Nature (poem) by Graeme King · Unit 3: Changing Attitudes Reading Selection: 3.1 The Blanket (story) by Floyd Dell 	

Syllabus Pack Block 1 (week 5)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 5 4 hrs	<p>Unit 2: Environment and Nature Reading Selection: 2.3 Tears of Nature (poem) by Graeme King</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> · Recite & analyze the theme of the poem critically · Think about how man is destroying nature · answer the given questions · paraphrase the poem 	<ul style="list-style-type: none"> · Recitation of the poem. Connect the title with the theme of poem. · Use internet to identify the reasons for Nature being in tears - with reference to the depletion of Ozone Layer, Global Warming and Pollution of Earth, Water and Atmosphere, Shrinking Forests etc. · Think about the severe consequences of man's actions on the environment · Using internet, find human impacts on the environment. e.g Water Contamination and Scarcity, Smog, Severe Flooding, Climate Change, Melting Ice caps and Global Warming. <p>Written work:</p> <ul style="list-style-type: none"> · Ref: Textbook 2.3 Study Question.12, page 64. · Attempt the End of Unit exercise · Paraphrasing of the poem to be done in notebooks. 	<ul style="list-style-type: none"> · English Textbook Grade XI (KPTBP) (Pgs 60-64) · Internet research

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>Unit 3: Changing Attitudes Reading Selection: 3.1 The Blanket (story) by Floyd Dell</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> · read & identify the main idea of the lesson · develop compassion for elderly people · discuss their own feelings towards the elderly people in their house · answer the comprehension questions · write a summary 	<ul style="list-style-type: none"> · Reading of the text. Underline & find synonyms of words that are new for you. · Explore & relate significance of the title & theme of the story. · Study the inferential & analytical questions. · Discuss how your grandparents should be treated at home. Are we treating them as they deserve to be? · Learn the lesson that the way the children see their grandparents being treated at home is exactly the way they will treat their own parents later in life. · Written work · End of Unit Exercise · Summary writing 	<ul style="list-style-type: none"> · English Textbook Grade XI (KPTBP) (Pgs. 66 – 70)

2021 - 2020

مضمون: اود گیارھویں

ذبح	طریقہ تدبیریں	موضوعات / مقاصد	نقشہ نمبر / وقت
اردو (لازمی) گیارھویں عت کے لیے صفحہ نمبر 119	☆ طلبا صفحہ نمبر 119۔ مراعات لبطی کی ی گئی تعریف کو بغور پڑھیں او تین ایسے اشعلا تحریر کریں جن میں صنعت مراعات لبطی استعمال کی گئی ہو۔	مراعات لبطی۔ ا۔ مراعات لبطی۔	

Block 1: Mathematics Week 5

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 5 5Hrs	Jul 27– Jul 30	Unit – 4 Quadratic Equations 4.8 Relations between the roots and the co-efficient of a quadratic equation 4.9 Formation of an equation whose roots are given 4.10 Nature of Roots of a quadratic equation 4.11 System of two equations involving two variables 4.12 Problems on Quadratic Equations.	

Syllabus Pack Block 1 (week 5)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 5 5 Hrs	Unit – 4 Quadratic Equations 4.8 Relations between the roots and the co-efficient of a quadratic equation 4.9 Formation of an equation whose roots are given 4.10 Nature of Roots of a quadratic equation 4.11 System of two equations involving two	Read the textbook from Ex 4.6 - 4.10 (Page No. 161 – 172) to cover the desired amount of content for the week: <ul style="list-style-type: none"> · Study the method used to find the roots of a given equation. · Also study the concept of finding the equation by using the given roots. · Solve Q1-9 of Ex 4.6 · Read and comprehend the concept of discriminant. · Study the nature of roots of the quadratic equations. · Solve Q1-8 of Ex 4.7. · Study the method of solving the equations of two variables. · Comprehend the method that if one of the variables is eliminated and the resulting equation in one variable is solved. · Solve Q1-10 of Ex 4.8. · Solve Q1-10 of Ex 4.9. · Study the applications of Quadratic equations. · Identify the examples of quadratic equations and their use 	<ul style="list-style-type: none"> · Mathematics Algebra and Trigonometry for Class XI (Punjab Curriculum and Text Book Lahore) (Page No. 161 – 172) · Laptop / Tab / Smart Phone · Watch the relevant videos on sabaq.pk · Watch these additional videos; · https://www.youtube.com/watch?v=ly6WBgm_2us

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>variables</p> <p>4.12 Problems on Quadratic Equations.</p> <p>After studying these topics the students should be able to:</p> <ul style="list-style-type: none"> · solve the roots of the given equation · find sum and product of roots of equation · form the equation of given roots · to recognize the roots of the equation · analyse and classify the nature of roots of the quadratic equation · solve system of two equations involving two variables · solve word problems on quadratic equations 	<p>in daily life.</p> <ul style="list-style-type: none"> · Solve Q1-20 of Ex4.10. 	<ul style="list-style-type: none"> · https://www.youtube.com/watch?v=1m3z2cdrwfU

Block 1: Physics Week 5

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 5 3 : 30 Hrs	Jul 27– Jul 30	UNIT # 2 VECTORS AND EQUILIBRIUM 2.1 Torque or Moment of Force 2.2 Equilibrium 2.3 Concurrent Forces	

Syllabus Pack Block 1 (week 5)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 5	UNIT # 2 VECTORS AND EQUILIBRIUM 2.6 Torque or Moment of Force 2.7 Equilibrium 2.8 Concurrent Forces Exercise i-xi Examples 2.4 & 2.5 Short Questions iv-vii Comprehensive Questions vi &vii Numerical Problems vi-xii Students will be able to: <ul style="list-style-type: none"> · Define and derive torque · State conditions of equilibrium · Solve 2d problems 	Read the textbook from pgs. 38-44 to cover the desired amount of content for the week and enable yourself to: <ul style="list-style-type: none"> · Explain and derive torque. · define the torque as vector product $\mathbf{r} \times \mathbf{F}$ · list applications of torque or moment due to a force · State first condition of equilibrium & Explanation and derivation of first condition of equilibrium (Equilibrium of Forces). · State second condition of equilibrium & Explanation and derivation of second condition of equilibrium (Equilibrium of Torques). · Solve two dimensional problems involving forces (statics) using 1st and 2nd conditions of equilibrium from exercise · explain why the height of racing cars is kept low · exercise · explain why do buses and heavy trucks have large steering wheels · describe how cranes are able to lift very heavy loads without toppling 	<ul style="list-style-type: none"> · Physics XI – Khyber Pakhtunkhwa Textbook Board, Peshawar pgs. 38-44 · Laptop / Tab / Smart Phone · Watch the relevant videos on sabaq.pk · Watch these additional videos; · https://www.youtube.com/watch?v=jg4e8W44_E4 · https://www.khanacademy.org/science/physics/torque-angular-momentum/torque-tutorial/v/moments

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none">Explain how moments play a role in designing of various mechanical machines	<ul style="list-style-type: none">Solve examples 2.4 & 2.5. Solve the following questions and problems using guidance from attached online links: Exercise i-xi Short Questions iv-vii Comprehensive Questions vi &vii Numerical Problems vi-xii	<ul style="list-style-type: none">https://www.youtube.com/watch?v=cGP0e9voNLMhttps://www.youtube.com/watch?v=EqUz3TTzaUQ

Subject: Chemistry– XI
Block 1: Week 5

Session (2020-2021)

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 5 4hrs	July 25 – July 30	CHAPTER 03: <u>THEORIES OF COVALENT BONDING AND SHAPES OF THE MOLECULES</u> <ul style="list-style-type: none"> · Shapes Of Molecules · Theories Of Covalent Bonding · The Valence Shell Electron Pair Repulsion Theory · Basic Assumptions Of VSEPR Theory · Postulates Of VSEPR Theory · Applications Of VSEPR Theory · Valence Bond Theory · Postulates Of VBT · Drawbacks Of VBT · Sigma (δ) and Pi (π) Bonds · Formation Of H_2, F_2, Cl_2, HF, HCl, O_2, N_2 Molecules · Hybridization Of Atomic Orbitals · sp^3, sp^2, sp Hybridizations · Topic Related Exercise Questions 	

Syllabus Pack Block 1 (week 5)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 5 4 hrs	CHAPTER 03: <u>THEORIES OF COVALENT BONDING AND SHAPES OF THE MOLECULES</u>	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline 	<ul style="list-style-type: none"> – Textbook of Chemistry Grade 11 National Book Foundation Islamabad as Federal Textbook Board- Islamabad (pg 54-70, pg 86-87)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> · Introduction 3.1: Shapes Of Molecules 3.2: Theories Of Covalent Bonding 3.2.1: The Valence Shell Electron Pair Repulsion Theory <ul style="list-style-type: none"> · Basic Assumptions Of VSEPR Theory · Postulates Of VSEPR Theory · Applications Of VSEPR Theory 3.2.2: Valence Bond Theory <ul style="list-style-type: none"> · Postulates Of VBT · Drawbacks Of VBT · Sigma (δ) and Pi (π) Bonds · Formation Of H_2, F_2, Cl_2, HF, HCl, O_2, N_2 Molecules · Hybridization Of Atomic Orbitals · sp^3, sp^2, sp Hybridizations 	<ul style="list-style-type: none"> · Study and then redo the sample problems to understand the concepts and their calculations <p>Written work</p> <ul style="list-style-type: none"> · Students to mark and solve all topic related questions and problems given in Exercise. · All written work to be submitted and get checked by the Subject Teacher. <p>Let 's find out:</p> <ul style="list-style-type: none"> · Can VSEPR theory be used to predict the shapes of all molecules? · How does VSEPR theory explain the shape of small molecules? <p>Assignment:</p> <ul style="list-style-type: none"> · Provide the ground state electron configuration and the number of valence electrons for carbon and silicon. Describe how these two atoms are similar. · Draw an organic molecule which contains the following type of bonds: (a) a Carbon sp^3- Oxygen sp^3 sigma bond (b) Nitrogen sp^2- Carbon sp^2 sigma and pi bond c) Which bond do you think is stronger, a C-C bond or Si-Si? 	<ul style="list-style-type: none"> - Laptop / Tab / Smart Phone / internet - Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p> <ul style="list-style-type: none"> - sabaq.pk - elearn.gov.pk - chemed.chem.purdue.edu/genchem/topicreview/bp/ch8/vsepr.html - https://www.youtube.com/watch?v=nTujP4jCbsqhttps://www.youtube.com/watch?v=4UP4LhDhoUE... - https://byjus.com/chemistry/hybridization

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none">· Topic Related Exercise Questions <p>Students will be able to:</p> <ul style="list-style-type: none">· describe the concept of covalent bonding· describe the difference among molecular, network and metallic solids· use VSEPR theory to describe the shapes of simple covalent bonded molecule· use Valence Bond theory to describe the shapes of simple covalently bonded molecules· determine the shapes of some molecules from number of bonded pairs and lone pairs of electrons around the central atom· explain the concept		


Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>of hybridization</p> <ul style="list-style-type: none">• describe the shapes of some molecules using hybridization• solve topic related questions from exercise		

Block 1: Biology Week 5

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 5 4 hrs	July 25 – July 30	CHAPTER 3: <u>ENZYMES</u> <ul style="list-style-type: none"> · Introduction · Enzyme Structure · Shape of Enzymes and Components of An Active Site · Types of Co-factors · Mechanism of Enzyme Action · Models of Enzyme Action · Energy of Activation 	

Syllabus Pack Block 1 (week 5)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 5 4hrs	CHAPTER 3: <u>ENZYMES</u> <ul style="list-style-type: none"> · Introduction 3.1: Enzyme Structure 3.1.1: Shape of Enzymes and Components of An Active Site 3.1.2: Types of Co-factors 3.2: Mechanism of Enzyme Action 3.2.1: Models of Enzyme Action 3.2.2: Energy of 	<ul style="list-style-type: none"> · Watch the topic related videos on sabaq.pk and e learn and other recommended websites. · Read all important definitions and topics given in textbook highlighting the important definitions and difficult terms and put a Question mark on the margin against them. The subject teacher can be asked to explain it to student on helpline · Study all the figures and tables given with topics to understand the concepts. · Think critically to answer questions asked in 'Critical Thinking' columns given with topics. · Read all interesting Extra information and 'Science Tidbits' boxes. · Do the tasks given in 'Skills, Analyzing, Interpreting and 	<ul style="list-style-type: none"> – Textbook of Biology Grade 11 National Book Foundation Islamabad as Federal Textbook Board-Islamabad (pg 74-80) – Laptop / Tab / Smart Phone / internet – Self-Check Exercises <p>Reference Links: Watch the topic related videos on</p>

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<p>Activation Science Titbits Topic related Exercise Questions Student will be able to:</p> <ul style="list-style-type: none"> • define the term enzyme • understand the concept of enzymes, chemical reactions, catalysts and substrates • explain properties, structure and functions of enzymes • explain that enzymes only work on a single substrate • explain that enzymes function by lowering the activation energy for biochemical reactions • describe nature and functions of co-factors • mechanism of enzyme action with the help of lock and key & induced fit models • explain the role of enzymes in reducing the activation energy of a reaction • solve the questions related to the topics 	<p>communication' boxes.</p> <p>Written work</p> <ul style="list-style-type: none"> • Students to mark and solve all topic related questions given in Exercise . • Draw diagrams related with questions. • All written work to be submitted and get checked by the Subject Teacher. <p>Let's find out: The students to find out by themselves using internet search and record their finding on registers/loose sheets</p> <ul style="list-style-type: none"> • What does lemon juice, snake venom and cyanide have in common? • Why can you make pineapple jelly from tinned pineapple but not fresh pineapple? • What happens to a reaction when an enzyme catalyzes it? • What will happen to the rate at which a chemical reaction proceeds if the activation energy is increased? • Two substrates—lactose and a short protein—are shown on the left. Two enzymes are shown on the right, labeled A and B. Which of the two enzymes is lactase? <div style="text-align: center;">  <p>The diagram illustrates the lock-and-key model of enzyme action. On the left, there are two substrates: Lactose, represented by two hexagons joined together, and Protein, represented by four squares joined in a chain. On the right, there are two enzymes, labeled A and B, represented by blue shapes with specific active sites. Enzyme A has a notch that fits perfectly with the Lactose molecule, while Enzyme B has a different shape that does not fit with either substrate.</p> </div>	<ul style="list-style-type: none"> - sabaq.pk - elearn.gov.pk - https://www.khanacademy.org/test-prep/mcat/biomolecules/enzyme-structure-and-function/v/an-introduction-to-enzymes-and-catalysis - https://youtu.be/CZD5xsOKres - https://www.youtube.com/watch?v=ie_7Y7HJlps

Block 1: Computer Science Week 5

Wks / duration	Time line	Course Content Unit /Chapter/Topics	Checklist Complete/incomplete
Week 5 5hrs	July 27 – Aug 01	Chapter # 2: Computer memory <ul style="list-style-type: none"> · Memory Characteristics · Memory terminology · Memory built-up and retention power · Relevant Ex Questions at the end of Unit 	

Syllabus Pack Block 1 (week 5)

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
Week 5 5 hrs	Chapter # 2: Computer memory Students will be able to <ul style="list-style-type: none"> · understand the concept of memory. · describe the general memory operations. · understand Bit, Byte, memory word and memory units. · understand the concept of main memory and secondary memory. 	Recall the previous knowledge about the concept taught in previous classes. <ul style="list-style-type: none"> · Read all important definitions and topics given in textbook · Use Computer, Laptop, Tabs /smart phone to go over the internet and search on Google about the Memory characteristics and Memory terminology. · Gather information about Memory built up and Retention power. https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-2.1&v=cs-comp-hw-19 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-2.1&v=cs-comp-hw-24 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-2.1&v=cs-comp-hw-20 https://sabaq.pk/videopage.php?sid=federal-computer%20science-11th-2.1&v=cs-comp-hw-49 https://www.youtube.com/watch?v=gllmaN8dyDM https://www.youtube.com/watch?v=BlA-SL4RvfM	<ul style="list-style-type: none"> – Textbook of Computer Science Grade 11 – National Book Foundation Islamabad As Federal Textbook Board- Islamabad pgs 28-32 – Exercise(MCQs Short Q/A, Long Q/A) Reference Links: <ul style="list-style-type: none"> – Watch the topic related videos on sabaq.pk Solve the practice test given with topics on sabaq.pk

Week/ Study Hours	Topic/ Objectives	Study Guidelines	Resources
	<ul style="list-style-type: none"> · understand the difference between chip memory and magnetic memory. · understand volatile and non-volatile memory.. · 	<p>https://www.youtube.com/watch?v=WvfW_5-8fpk https://www.youtube.com/watch?v=rN8kWeykIOs</p> <p>Visit the above given links to</p> <ul style="list-style-type: none"> · See the concept of computer memory. · Define bit, byte, and memory word and memory units. · See the difference between chip memory, magnetic memory and optical memory. · See the difference between volatile and non-volatile memory. · See the concept of read operation; write operation, access time, cycle time. <ul style="list-style-type: none"> · Written work · Write the answers of Questions given at the end of chapter Q2(i & v)Q3(iv) 	

ہفتہ نمبر/ادف	نہم سن	نصبی مواد باب/سبق/موضوعات	چیک لسٹ (برائے طالب علم) مکمل/نا مکمل
پانچواں ہفتہ (10 گھنٹہ + 20 منٹ)	لائی 27 - لائی 30	باب اول: بنیای عقائد ☆ آحت (مفہوم - عقیدہ آحت کے اسنی زندگی پر ارتک) باب چہارم: تعاف مرآن و حدیث ☆ منتخب آیت : 3	

سلیس پیک بلاک-1 (پانچواں ہفتہ)

ہفتہ نمبر/تدریسی گھنٹے	موضوعات/مقاصد	تدریسی ہدایات	ذرائع
پانچواں ہفتہ (10 گھنٹہ + 20 منٹ)	باب اول: بنیای عقائد ☆ آحت (مفہوم - عقیدہ آحت کے اسنی زندگی پر ارتک) طلباس قابل ہوں گے کہ: • عقیدہ آحت کا مفہوم او آحت کے سلسلے میں فرنی تعلیمت سمجھ سکیں۔ • اسلام میں عقیدہ آحت کی اہمیت کو سمجھ سکیں۔ • عقیدہ آحت کے اسنی زندگی پر ارتک پر	• عقیدہ آحت (مفہوم - اسنی زندگی پر ارتک) کی پڑھائی کریں۔ • عقیدہ آحت کا مفہوم او آحت کے سلسلے میں فرآنی تعلیمت سمجھ کر پڑھیں۔ • آیت مبارکہ کی روشنی میں "عقیدہ آحت کی اہمیت کو اچھی طرح سمجھ کر پڑھیں او تبالہ خلیل کریں۔ • "عقیدہ آحت کے اسنی زندگی پر ارتک" پر زنی اظہار خلیل کریں۔	• اسلامیت لازمی (11) (ص: 15 - 18 + 68) • مرآن مجید مع رحمہ • تفسیر مرآن

ذرائع	تدریسی ہدایات	موضوعات/مقاصد	ہفتہ نمبر/ تدریسی گھنٹے
	<ul style="list-style-type: none"> • موضوع سے متعلق چند آیات کا ترجمہ سمجھ کر زنی یا کریں۔ • پڑھے گئے موضوعات سے متعلق مشقی سوالات کے جوابات نوٹ بکس پر لکھیں۔ • درست تلفظ اور مرث کے ساتھ آیت مبارکہ مع جملہ و تشریح سمجھ کر چھپیں اور نوٹ بکس پر تحریر کریں۔ • آیت مبارکہ کی تشریح اپنے الفاظ میں زنی لیا کریں۔ • آیت مبارکہ کی روشنی میں "اللہ کی رسی پر زنی اظہار خلیل کریں۔ • آیت مبارکہ میں بلیک کہہ حکم کو مرید سمجھنے کے لیے کسی بھی تفسیر قرآن کا مطالعہ کریں۔ 	<ul style="list-style-type: none"> • زنی اظہار خلیل کر سکیں۔ • موضوع سے متعلق مشقی سوالات کے جوابات لکھ سکیں۔ • <u>باب چہارم: تعاف قرآن و حدیث</u> • <u>☆ منتخب آیت : 3</u> • (سورۃ آل عمران: 103) • طلباء اس قابل ہیں گے کہ: • آیت مبارکہ کو سمجھ کر جملہ و تشریح کر سکیں۔ 	