

**SRI GURU NANAK PUBLIC SCHOOL, ADARSH NAGAR, DELHI-110033**

**CLASS – XII : SCIENCE  
SYLLABUS BREAKUP 2023-24**

**SUBJECT : ENGLISH CORE (301)**

Dates/ Week	Work ing days	SYLLABUS REFERENCE	LEARNING OBJECTIVES	TEACHING ACTIVITIES	LEARNING RESOURCES
		TOPIC	STUDENTS SHOULD BE ABLE TO		
1 <sup>st</sup> April – 12 <sup>th</sup> April	10	Job Application,  Poem 1: My Mother At Sixty Six, Comprehension Passage	Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To Speak And Write Without Grammatical Errors	ASSIGNMENTS	NCERT Text books, BBC, Rachna Sagar
15 <sup>th</sup> April – 30 <sup>th</sup> April	14	Ch 1(Flamingo) Last Lesson,  Ch 2(Flamingo) Lost Spring	Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To Speak And Write Without Grammatical Errors	ASSIGNMENTS	NCERT Text books, BBC, Rachna Sagar
1 <sup>st</sup> May –	10	Poem 2 Keeping Quiet,  Ch 3(Flamingo) Deep Water	Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And	ASSIGNMENTS	NCERT Text books, BBC, Rachna Sagar

<b>13<sup>th</sup> May</b>			<b>Literature, Learn To Speak And Write Without Grammatical Errors</b>		
<b>15<sup>th</sup> May – 29<sup>th</sup> May</b>	<b>11</b>	<b>Ch 4 (Flamingo) Ratrap, Notice, Letter To Editor</b>	<b>Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To Speak And Write Without Grammatical Errors</b>	<b>ASSIGNMENTS</b>	<b>NCERT Text books, BBC, Rachna Sagar</b>
<b>1<sup>st</sup> July – 10<sup>th</sup> July</b>	<b>MICRO TEST - I</b>				
<b>11<sup>th</sup> July – 31<sup>st</sup> July</b>	<b>16</b>	<b>Ch 5(Flamingo) Indigo, Poem 3 A Thing Of Beauty, Article, Ch 1(Vistas) Third Level</b>	<b>Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To Speak And Write Without Grammatical Errors</b>	<b>ASSIGNMENTS</b>	<b>NCERT Text books, BBC, Rachna Sagar</b>
<b>1<sup>st</sup> Aug – 13<sup>th</sup> Aug</b>	<b>10</b>	<b>Ch 2 (Vistas) Tiger King, Ch 3 (Vistas) Journey To The End Of The Earth, Poem 4 Roadside Stand,</b>	<b>Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To Speak And Write Without Grammatical Errors</b>	<b>ASSIGNMENTS</b>	<b>NCERT Text books, BBC, Rachna Sagar</b>

		<b>Report Writing</b>			
<b>16<sup>th</sup> Aug – 06<sup>th</sup> Sep</b>	<b>16</b>	<b>Invitations/Replies, Ch 6 (Flamingo) Poets And Pancakes</b>	<b>Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To Speak And Write Without Grammatical Errors</b>	<b>PROJECT</b>	<b>NCERT Text books, BBC, Rachna Sagar</b>
<b>07<sup>th</sup> Sept –19<sup>th</sup> Sept</b>	<b>MICRO TEST - II</b>				
<b>20<sup>th</sup> Sept – 30<sup>th</sup> Sept</b>	<b>09</b>	<b>Ch 7 (Flamingo): Interview, Ch 8 (Flamingo) Going Places, Poem 6 Aunt Jennifer’s Tigers</b>	<b>Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To Speak And Write Without Grammatical Errors</b>	<b>ASSIGNMENTS</b>	<b>NCERT Text books, BBC, Rachna Sagar</b>
<b>01<sup>st</sup> Oct – 28<sup>th</sup> Oct</b>	<b>18</b>	<b>Ch 4 (Vistas) The Enemy, Ch 5 (Vistas) On The Face Of It,</b>	<b>Comprehend Textual Content, Enhance Vocabulary, Write With Proper Expression And In Coherence, Write Answers To Questions Based On Textual Content, Develop Finer Taste For Poetry And Literature, Learn To</b>	<b>ASSIGNMENTS</b>	<b>NCERT Text books, BBC, Rachna Sagar</b>

		<b>Ch 6 (Vistas) Memories Of Childhood</b>	<b>Speak And Write Without Grammatical Errors</b>		
<b>04<sup>th</sup> Nov – 14<sup>th</sup> Nov</b>	<b>09</b>	<b>REVISION FOR FIRST PREBOARD EXAM</b>			
<b>17<sup>th</sup> Nov – 30<sup>th</sup> Nov</b>	<b>FIRST PREBOARD EXAM</b>				
<b>02<sup>nd</sup> Dec – 30<sup>th</sup> Dec</b>	<b>21</b>	<b>REVISION FOR CBSE EXAMS &amp; PRACTICALS</b>			
<b>FIRST WEEK OF JAN' 25</b>	<b>SECOND PREBOARD EXAM</b>				
<b>15<sup>th</sup> Jan'25 onwards</b>	<b>REVISION OF SYLLABUS/ENRICHMENT / REMEDIAL CLASSES</b>				

**SUBJECT : PHYSICS , CODE( 042)**

<b>Dates/ Week</b>	<b>Working days</b>	<b>SYLLABUS REFERENCE</b>	<b>LEARNING OBJECTIVES</b>	<b>TEACHING ACTIVITIES</b>	<b>LEARNING RESOURCES</b>
		<b>TOPIC</b>	<b>STUDENTS SHOULD BE ABLE TO</b>		

<p>1<sup>st</sup> April – 12<sup>th</sup> April</p>	<p>10</p>	<p><b>Ch 14 : Semiconductor Electronics : Materials ,Devices And Simple Circuits</b></p>	<ol style="list-style-type: none"> <li>1. Differentiate between conductors , semiconductors and insulators.</li> <li>2. Explain formation of p-n junction.</li> <li>3. Differentiate between forward and reverse biasing.</li> <li>4. Explain diode as a rectifier.</li> </ol>	<p>1. Blackboard teaching. Demonstration of activities on you tube.</p>	<p>N.C.E.R.T</p>
<p>15<sup>th</sup> April – 30<sup>th</sup> April</p>	<p>14</p>	<p><b>Ch 11 : Dual Nature Of Radiation And Matter</b> <b>Chapter 12 : Atoms</b> <b>Chapter 13 : Nuclei</b></p>	<ol style="list-style-type: none"> <li>1. Explain Photoelectric Effect.</li> <li>2. Perform numericals on Einstein's theory.</li> <li>3. state De-Broglie Hypothesis.</li> <li>4. Explain Rutherford model , Bohr model of an atom.</li> <li>5. List the properties of nuclear forces.</li> <li>6. Explain mass defect and binding energy.</li> </ol>	<p>1. Blackboard teaching. 2. Demonstration of activities on you tube.</p>	<p>N.C.E.R.T</p>
<p>1<sup>st</sup> May – 13<sup>th</sup> May</p>	<p>10</p>	<p><b>Ch 9 : Ray Optics</b>  <b>Ch 10 : Wave Optics</b></p>	<ol style="list-style-type: none"> <li>1. Explain reflection of light - laws , mirror formula.</li> <li>2. Explain refraction of light - TIR , Snell's Law.</li> <li>3. Deduce lens formula.</li> <li>4. Explain Optical instruments.</li> <li>5. State Huygen's principle.</li> <li>6. Explain interference , diffraction and polarisation of light.</li> </ol>	<p>1. Blackboard teaching. 2. Demonstration of activities on you tube. Lab activities.</p>	<p>N.C.E.R.T</p>

15 <sup>th</sup> May – 26 <sup>th</sup> May	11	Ch 1 : Electric Charges And Fields	<ol style="list-style-type: none"> <li>1. Explain Coulomb's law and Electric field.</li> <li>2. Perform numericals on forces and electric field. Explain dipole and deduce the relation between electric field on axial and equatorial point,</li> <li>3. State Gauss law.</li> <li>4. Give its applications</li> </ol>	<ol style="list-style-type: none"> <li>1. Blackboard teaching.</li> <li>2. Demonstration of activities on you tube.</li> </ol>	N.C.E.R.T
1 <sup>st</sup> July – 10 <sup>th</sup> July	MICRO TEST - I				
11 <sup>th</sup> July – 31 <sup>st</sup> July	16	Ch 2 : Electrostatic Potential And Capacitance	<ol style="list-style-type: none"> <li>1. State electric potential.</li> <li>2. Sketch equipotential surfaces.</li> <li>3. List properties of Equipotential surfaces</li> <li>4. Differentiate between conductors and insulators.</li> <li>5. Explain capacitors.</li> </ol>	<ol style="list-style-type: none"> <li>1. Blackboard teaching.</li> <li>Demonstration of activities on you tube.</li> </ol>	N.C.E.R.T
1 <sup>st</sup> Aug – 13 <sup>th</sup> Aug	10	Ch 3 : Current Electricity	<ol style="list-style-type: none"> <li>1. Define Electric Current.</li> <li>2. State drift velocity and its relation with electric Field.</li> <li>3. State Ohm's Law.</li> </ol> <p>Explain Kirchhoff's rules and perform numericals on it.</p>	<ol style="list-style-type: none"> <li>1. Blackboard teaching.</li> <li>2. Demonstration of activities on you tube.</li> <li>3. Lab activities.</li> </ol>	N.C.E.R.T

<b>16<sup>th</sup></b> <b>Aug –</b> <b>06<sup>th</sup></b> <b>Sep</b>	<b>16</b>	<b>Ch 4 : Moving Charges And Magnetism</b>	<b>1. Explain magnetic field.</b> <b>2. State Biot Savart Law.</b> <b>3. Give Ampere circuital law and its applications.</b> <b>4. Explain moving Coil Galvanometer</b>	<b>1. Blackboard teaching.</b> <b>Demonstration of activities on you tube.</b>	<b>N.C.E.R.T</b>
<b>07<sup>th</sup></b> <b>Sept –</b> <b>19<sup>th</sup></b> <b>Sept</b>	<b>MICRO TEST - II</b>				
<b>20<sup>th</sup></b> <b>Sept</b> <b>– 30<sup>th</sup></b> <b>Sept</b>	<b>09</b>	<b>Ch 5 : Magnetism And Matter</b>  <b>Ch 6 : Electromagnetic Induction</b>  <b>Ch 7 : Alternating Current</b>	<b>1. Establish similarity between bar magnet and solenoid.</b> <b>2. Sketch magnetic field lines. State Torque due to a magnetic dipole.</b> <b>4. List magnetic properties of magnetic materials.</b> <b>5. State the laws of EMI.</b> <b>6. Explain Faraday's Laws and Lenz Law.</b> <b>7. Differentiate between self and mutual induction.</b> <b>8. Differentiate between a.c and d.c.</b> <b>9. Draw the impedance curves.</b> <b>10. Explain LCR series circuit.</b> <b>11. Explain transformer and a.c generator</b>	<b>1. Blackboard teaching.</b>  <b>2. Demonstration of activities on you tube.</b>  <b>Lab Experiments.</b>	<b>N.C.E.R.T</b>
<b>01<sup>st</sup></b> <b>Oct –</b> <b>28<sup>th</sup></b> <b>Oct</b>	<b>18</b>	<b>Ch 8 : Electromagnetic Waves</b>	<b>1. Give the basic idea of displacement current.</b> <b>2. Sketch and list properties of EM waves.</b> <b>Explain electromagnetic</b>	<b>1. Blackboard teaching.</b> <b>2. Demonstration of activities on you tube.</b>	<b>N.C.E.R.T</b>

			<b>spectrum.</b>	<b>Lab activities.</b>	
<b>04<sup>th</sup> Nov – 14<sup>th</sup> Nov</b>	<b>09</b>	<b>REVISION FOR FIRST PREBOARD EXAM</b>			
<b>17<sup>th</sup> Nov – 30<sup>th</sup> Nov</b>		<b>FIRST PREBOARD EXAM</b>			
<b>02<sup>nd</sup> Dec – 30<sup>th</sup> Dec</b>	<b>21</b>	<b>SECOND PREBOARD EXAM</b>			
<b>FIRST WEEK OF JAN' 25</b>		<b>REVISION OF SYLLABUS/ENRICHMENT/ REMEDIAL CLASSES</b>			
<b>15<sup>th</sup> Jan'25 onwards</b>		<b>REVISION OF SYLLABUS/ENRICHMENT/ REMEDIAL CLASSES</b>			



<b>SUBJECT : CHEMISTRY(Code : 043)</b>					
Dates/ Week	NO. OF WORK ING DAYS	SYLLABUS REFERENCE	LEARNING OBJECTIVES	TEACHING ACTIVITIES	LEARNING RESOURCES
		TOPIC	STUDENTS SHOULD BE ABLE TO		
1 <sup>st</sup> April – 12 <sup>th</sup> April	10	Hydrocarbons (Class XI)	Understand and learn the preparation and properties of alkyne	Videos on smart panel board from Shiksha House youtube channel <a href="https://www.youtube.com/watch?v=rvqLff_eJR8&amp;list=PLWUtJwe9Mk5095Gc0BSXsT1HqBuSIVotv">https://www.youtube.com /watch?v=rvqLff_eJR8&amp;list =PLWUtJwe9Mk5095Gc0B SXsT1HqBuSIVotv</a>	<a href="https://byjus.com/ncert-solutions-class-11-chemistry/">https://byjus.com/ncert-solutions- class-11-chemistry/</a> <a href="https://unacademy.com/goal/cbse-class-11/GWDPZ/free-platform/chemistry/HHIUG">https://unacademy.com/goal/c bse- class-11/GWDPZ/free- platform/chemistry/HHIUG</a> <a href="https://www.vedantu.com/revisions-notes/cbse-class-11-chemistry-notes">https://www.vedantu.com/revi sion- notes/cbse-class-11- chemistry-notes</a>
15 <sup>th</sup> April – 30 <sup>th</sup> April	14	Unit 10 Haloalkanes and Haloarenes	1. Write the structure of Alkyl Halide 2. Write the IUPAC name of Alkyl Halides 3. Differentiate between the reactivities of different halides 4. Understand the stereo- chemistry of SN1 and SN2 3. Understand the Nature of C- X Bond	Videos on smart panel board from youtube Shiksha House channel.  <a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/ UC4HsqJfmdXDp1uiwnxjq6uQ/fe atured</a>	<a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert- solutions/ncert-solutions-class-12- chemistry</a> <a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions- class-12-chemistry/</a> <a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse- class-12/PLWCX/free- platform/chemistry/UKCFV</a>

1 <sup>st</sup> May – 13 <sup>th</sup> May	10	<b>Chapter 11 Alcohols, Phenols and Ethers</b>	<ol style="list-style-type: none"> <li>1. Write the structural name of the Alcohols</li> <li>2. Write the IUPAC name of Alcohols</li> <li>3. Understand the physical and chemical properties of alcohol</li> <li>4. Differential between the reactivities of different alcohols</li> <li>5. Understand the mechanism of Dehydration and Hydration</li> </ol>	<p>Videos on smart panel board from youtube Shiksha House channel.</p> <p><a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured</a></p>	<p><a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry</a></p> <p><a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions-class-12-chemistry/</a></p> <p><a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV</a></p>
15 <sup>th</sup> May – 26 <sup>th</sup> May	9	<b>Chapter 12 Aldehydes, Ketones and Carboxylic Acid</b>	<ol style="list-style-type: none"> <li>1. Write the IUPAC name of aldehyde, ketone</li> <li>2. Learn the name reactions of aldehyde and ketones</li> </ol> <p>Understand the mechanism of chemical reactions of carbonyl compounds</p> <ol style="list-style-type: none"> <li>3. Understand the Chemical test to distinguish between different Carbonyl compounds</li> <li>4. Learn the physical and chemical properties of carboxylic group</li> </ol>	<p>Videos on smart panel board from youtube Shiksha House channel.</p> <p><a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured</a></p>	<p><a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry</a></p> <p><a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions-class-12-chemistry/</a></p> <p><a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV</a></p>
1 <sup>st</sup> July – 10 <sup>th</sup> July	<b>MICRO TEST – I</b>				

<p><b>11<sup>th</sup> July – 31<sup>st</sup> July</b></p>	<p><b>16</b></p>	<p><b>Chapter 13 Amines Chapter 14 Biomolecules</b></p>	<ol style="list-style-type: none"> <li>1. Write the structure and IUPAC names of amines</li> <li>2. Learn preparatory name reactions of amines</li> <li>3. Differentiate between different types of amines</li> <li>4. Understand the structure based on evidences for glucose and fructose</li> <li>5. Understand the properties of different proteins</li> <li>6. learn the functions of vitamins</li> <li>7. Understand the structure and function of DNA and RNA</li> </ol>	<p>Videos on smart panel board from youtube Shiksha House channel.</p> <p><a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured</a></p>	<p><a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry</a>  <a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions-class-12-chemistry/</a>  <a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV</a></p>
<p><b>1<sup>st</sup> Aug – 13<sup>th</sup> Aug</b></p>	<p><b>10</b></p>	<p><b>Chapter 2 Solution</b></p>	<ol style="list-style-type: none"> <li>1. Calculate the concentrations of solutions</li> <li>2. Differentiate between ideal and non-ideal solution</li> <li>3. Calculate the molar masses of unknown compounds using colligative properties</li> <li>4. Understand the concept of abnormal mass.</li> </ol>	<p>Videos on smart panel board from youtube Shiksha House channel.</p> <p><a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured</a></p>	<p><a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry</a>  <a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions-class-12-chemistry/</a>  <a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV</a></p>
<p><b>16<sup>th</sup> Aug – 06<sup>th</sup> Sep</b></p>	<p><b>16</b></p>	<p><b>Chapter 3 Electrochemistry  Chapter 4 Chemical Kinetics</b></p>	<ol style="list-style-type: none"> <li>1. Understand the redox reactions and their application in chemical cells</li> <li>2. Calculate EMF of the cell by nerst equation</li> <li>3. Understand the working of different Chemical cells</li> <li>4. Calculate the rate if reaction and Rate constant</li> <li>5. differentiate between order and molecularity</li> <li>6. Understand the factors affecting the rate of reaction</li> </ol>	<p>Videos on smart panel board from youtube Shiksha House channel.</p> <p><a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured</a></p>	<p><a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry</a>  <a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions-class-12-chemistry/</a>  <a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV</a></p>

07 <sup>th</sup> Sept – 19 <sup>th</sup> Sept		<b>MICRO TEST – II</b>			
20 <sup>th</sup> Sept – 30 <sup>th</sup> Sept	09	<b>Chapter 8 d and f block elements</b>	1. Learn the general properties of transitional metals 2. Understand the various trends in transition series 3. Learn the oxidizing character of Oxidizing agent	Videos on smart panel board from youtube Shiksha House channel.  <a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured</a>	<a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry</a> <a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions-class-12-chemistry/</a> <a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV</a>
01 <sup>st</sup> Oct – 28 <sup>th</sup> Oct	18	<b>Chapter 9 Coordination Compounds</b>	1. Write the structure and IUPAC name of coordination compounds 2. Understand stereo-chemistry of coordination compounds 3. Understand the isomerism of coordination compounds 4. Understand the bonding in coordination compounds	Videos on smart panel board from youtube Shiksha House channel.  <a href="https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured">https://www.youtube.com/channel/UC4HsqJfmdXDp1uiwnxjq6uQ/featured</a>	<a href="https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry">https://www.vedantu.com/ncert-solutions/ncert-solutions-class-12-chemistry</a> <a href="https://byjus.com/ncert-solutions-class-12-chemistry/">https://byjus.com/ncert-solutions-class-12-chemistry/</a> <a href="https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV">https://unacademy.com/goal/cbse-class-12/PLWCX/free-platform/chemistry/UKCFV</a>
04 <sup>th</sup> Nov – 14 <sup>th</sup> Nov	09	<b>REVISION FOR 1st PREBOARD</b>			
17 <sup>th</sup> Nov – 30 <sup>th</sup> Nov	<b>FIRST PREBOARD EXAM</b>				
02 <sup>nd</sup> Dec – 30 <sup>th</sup> Dec	21	<b>REVISION FOR CBSE EXAMS &amp; PRACTICALS</b>			
<b>FIRST WEEK OF JAN' 25</b>	<b>SECOND PREBOARD EXAM</b>				
15 <sup>th</sup> Jan'25 onwards	<b>REVISION OF SYLLABUS/ENRICHMENT / REMEDIAL CLASSES REVISION OF WHOLE SYLLABUS</b>				

**SUBJECT : BIOLOGY , CODE( 044)**

<b>Dates/ Week</b>	<b>Workin g days</b>	<b>SYLLABUS REFERENCE</b>	<b>LEARNING OBJECTIVES</b>	<b>TEACHING ACTIVITIES</b>	<b>LEARNING RESOURCES</b>
		<b>TOPIC</b>	<b>STUDENTS SHOULD BE ABLE TO</b>		
<b>1<sup>th</sup> April – 12<sup>th</sup> April</b>	<b>10</b>	<b>Ch-2: Sexual Reproduction in Flowering Plants</b>	<b>Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreedings devices ; Pollen- Pistil interaction; Double fertilization.</b>	<b>observe the pollen germination of different flowers through slide preparation</b>	<b>BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT</b>
<b>15<sup>th</sup> April– 30<sup>th</sup> April</b>	<b>14</b>	<b>Ch-2: Sexual Reproduction in Flowering Plants</b>	<b>Post fertilization events-Development of endosperm and embryo, Development of seed and formation of fruit; Special modes-apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation</b>	<b>study different types of pollination</b>	<b>BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT</b>



15 <sup>th</sup> May– 26 <sup>th</sup> May	9	Ch-5: Principles of Inheritance and Variation	Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honey bees; linkage and crossing over; sex-linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.	Study of mendel characters using punett square .	BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT
1 <sup>st</sup> July– 10 <sup>th</sup> July	<b>MICRO TEST - I</b>				
11 <sup>th</sup> July – 31 <sup>st</sup> July	16	Ch-6: Molecular Basis of Inheritance	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.	Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness	BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT
1 <sup>st</sup> Aug– 13 <sup>th</sup> Aug	10	Ch-7: Evolution	Chapter-7: Evolution Origin of life; biological evolution and evidence for biological evolution (palaeontology, comparative anatomy, embryology and molecular evidence); Darwin's contribution, modern synthetic	Flash cards and models of homologous and analogous organs	BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT

		<p>theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution.</p> <p><b>Chapter-8: Human Health and Diseases</b>  <b>Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.</b></p>			
<p>16<sup>th</sup> Aug– 06<sup>th</sup> Sep</p>	<p>16</p>	<p><i>Unit-9 Biotechnology and its Applications</i></p>	<p><b>Ch-10: Microbes in Human Welfare</b>  <b>Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.</b>  <b>Chapter-11: Biotechnology - Principles and Processes</b>  <b>Genetic Engineering (Recombinant DNA Technology).</b>  <b>Chapter-12: Biotechnology and its Applications</b>  <b>Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt</b></p>	<p><b>DNA ISOLATION PRACTICAL USING PLANT SOURCE</b></p>	<p><b>BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT</b></p>



			crops; transgenic animals; biosafety issues, biopiracy and patents.		
<b>07<sup>th</sup> Sept–19<sup>th</sup>Sept</b>	<b>MICRO TEST - II</b>				
<b>20<sup>th</sup> Sept –30<sup>th</sup> Sept</b>	<b>9</b>	<b>Ch-13: Organisms and Populations</b>	<b>Population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution. (Topics excluded: Organism and its Environment, Major Abiotic Factors, Responses to Abiotic Factors, Adaptations)</b>	<b>Models specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens. Flash cards models showing examples of homologous and analogous organs.</b>	<b>BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT</b>
<b>01<sup>st</sup> Oct–28<sup>th</sup> Oct</b>	<b>18</b>	<b>Ch-14: Ecosystem Ecosystems</b>  <b>Ch-15: Biodiversity and its Conservation</b>	<b>Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy (Topics excluded: Ecological Succession and Nutrient Cycles)</b>  <b>Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT wildlife, sanctuaries and Ramsar sites.</b>	<b>Study the plant population density by quadrat method.</b>  <b>Study the plant population frequency by quadrat method.</b>	<b>BANK OF BIOLOGY BIOLOGY LAB FOR HANDS ON EXPERIMENT</b>

04 <sup>th</sup> Nov– 14 <sup>th</sup> Nov	9	REVISION FOR FIRST PREBOARD EXAM
17 <sup>th</sup> Nov–30 <sup>th</sup> Nov		FIRST PREBOARD EXAM
02 <sup>nd</sup> Dec–30 <sup>th</sup> Dec	21	REVISION FOR CBSE EXAMS& PRACTICALS
FIRST WEEK OF JAN' 25		SECOND PREBOARD EXAM
15 <sup>th</sup> Jan'25 onwards		REVISION OF SYLLABUS / ENRICHMENT / REMEDIAL CLASSES

**SUBJECT :COMPUTER SCIENCE , CODE(083)**

Dates/ Week	Workin g days	SYLLABUS REFERENCE	LEARNING OBJECTIVES	TEACHING ACTIVITIES	LEARNING RESOURCES
		TOPIC	STUDENTS SHOULD BE ABLE TO		
1 <sup>st</sup> April– 12 <sup>th</sup> April	10	<b>Ch 13: TABLE CREATION IN SQL</b>	Data Definition: 1.CREATE TABLE 2. ALTER table 3.DROP Database	<ul style="list-style-type: none"> <li>To create a database.</li> <li>To create student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.</li> <li>To insert the details of at least 10 students</li> </ul>	Computer Science by Preeti Arora
15 <sup>th</sup> April – 30 <sup>th</sup> April	14	<b>Ch 12 : SIMPLE QUERIES IN SQL</b>  <b>Ch 14 : GROUPING RECORDS, JOINS IN SQL</b>	Data Manipulation: INSERT Data Query: 1.SELECT(different Varieties), 2. FROM table, 3.WHERE criteria, 4.ORDER BY 5. UPDATE table 6.DELETE table	<ul style="list-style-type: none"> <li>Assignment to show records based on different criteria</li> <li>Sort record on ascending / descending order along with aggregate functions</li> </ul>	Computer Science by Preeti Arora

1 <sup>st</sup> May– 13 <sup>th</sup> May	10	<b>Ch 10: COMPUTER NETWORKS</b>	Introduction to networks, Types of network: LAN, MAN, WAN. Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. Network Devices: modem, hub, switch, repeater, router, gateway	PRACTICE ASSIGNMENTS	Computer Science by Preeti Arora
15 <sup>th</sup> May– 26 <sup>th</sup> May	9	<b>Ch 1 : PYTHON REVISION</b>	To execute different type of statements for sequence, selection and iterative flow of control	Slide Show on Python Revision Tour	Computer Science by Preeti Arora
1 <sup>st</sup> July– 10 <sup>th</sup> July	<b>MICRO TEST - I</b>				
11 <sup>th</sup> July –31 <sup>st</sup> July	16	<b>Ch 2 : PYTHON REVISION TOUR – II</b>	To use different type of derived data type identifiers including string , list , tuple , dictionaries along with their operations and functions	QUIZ: <a href="https://quizizz.com/join/quiz/5f2457df65ecb001be9c637/start?studentShare=true">https://quizizz.com/join/quiz/5f2457df65ecb001be9c637/start?studentShare=true</a>	Computer Science by Preeti Arora
1 <sup>st</sup> Aug– 13 <sup>th</sup> Aug	10	<b>Ch 3 : WORKING WITH FUNCTIONS</b>  <b>Ch 4 : USING PYTHON LIBRARIES</b>	Functions: 1. Types of function (built-in , defined in module, user defined), creating user defined function, 2. arguments and parameters, function returning value(s), flow of execution, 3. scope of a variable  Python Libraries: 1. String module 2. Math module 3. Date/time module 4. random module	PowerPoint presesntaion for Workinf with Functions on Smart Panel Board  PRACTICE ASSIGNMENTS	Computer Science by Preeti Arora

16 <sup>th</sup> Aug– 06 <sup>th</sup> Sep	16	<b>Ch 5 : FILE HANDLING</b>	<p>1. Introduction to files, types of files (Text file, Binary file, CSV file),</p> <p>2. Text file: opening in modes, opening using with clause, writing/append , reading using read(), seek and tell methods, manipulation of data .</p> <p>3. Binary file: open in modes, close, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file.</p> <p>4. CSV file: import csv module, open / close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader( )</p>	PROJECT WORK	Computer Science by Preeti Arora
07 <sup>th</sup> Sept– 19 <sup>th</sup> Sept	<b>MICRO TEST - II</b>				
20 <sup>th</sup> Sept –30 <sup>th</sup> Sept	09	<b>Ch 8 : DATA STRUCTURE: LIST</b>  <b>Ch 9 : DATA STRUCTURE: STACK</b>	<p>Data Structure:</p> <p>1. List, operations on list 2. Implementation of list.</p> <p>Data Structure:</p> <p>1. Stack, operations on stack (push &amp; pop), 2. Implementation of stack using list.</p>	PRACTICE ASSIGNMENTS	Computer Science by Preeti Arora
01 <sup>st</sup> Oct– 28 <sup>th</sup> Oct	18	<b>Ch : INTERFACE PYTHON WITH MySQL</b>	<p>Interface of Python with an SQL database: Connecting SQL with Python Creating Database connectivity Applications.</p>	Integrate SQL with Python by importing the MySQL module.	<a href="https://youtu.be/HZU0JRwv6AE">https://youtu.be/HZU0JRwv6AE</a>

		Performing Insert, Update, Delete queries. Display data by using fetchone(),fetchall(),rowcount.	
04 <sup>th</sup> Nov– 14 <sup>th</sup> Nov	09	<b>REVISION FOR FIRST PREBOARD EXAM</b>	
17 <sup>th</sup> Nov– 30 <sup>th</sup> Nov		<b>FIRST PREBOARD EXAM</b>	
02 <sup>nd</sup> Dec– 30 <sup>th</sup> Dec	21	<b>REVISION FOR CBSE EXAMS &amp; PRACTICALS</b>	
<b>FIRST WEEK OF JAN' 25</b>		<b>SECOND PREBOARD EXAM</b>	
15 <sup>th</sup> Jan' 25 onwards		<b>REVISION OF SYLLABUS/ENRICHMENT / REMEDIAL CLASSES</b>	

**SUBJECT: PHYSICAL EDUCATION, CODE (048)**

Dates/ Week	Working days	SYLLABUS REFERENCE	LEARNING OBJECTIVES	TEACHING ACTIVITIES	LEARNING RESOURCES
		TOPIC	STUDENTS SHOULD BE ABLE TO		
1 <sup>st</sup> April – 12 <sup>th</sup> April	10	<b>CH-6: TEST &amp; MEASUREMENT</b>	<b>Learn Khelo India fitness test for different age group students</b>		<b>You tube videos on smart board panel</b>

15 <sup>th</sup> April – 30 <sup>th</sup> April	14	CH-6:TEST & MEASUREMENT	Know how to measure senior citizen fitness		You tube videos on smart board panel
1 <sup>st</sup> May – 13 <sup>th</sup> May	10	CH-7: PHYSIOLOGY & INJURIES IN SPORTS	Learn effect of exercise on muscular system, cardio respiratory system, sports injuries and treatment		You tube videos on smart board panel
15 <sup>th</sup> May – 26 <sup>th</sup> May	9	CH- 8:BIOMECHANICS & SPORTS	Application of newton’s laws, liver equilibrium in sports		You tube videos on smart board panel
1 <sup>st</sup> July – 10 <sup>th</sup> July	<b>MICRO TEST - I</b>				
11 <sup>th</sup> July – 31 <sup>st</sup> July	16	CH- 8:BIOMECHANICS & SPORTS	Importance of friction and projectile in sports		You tube videos on smart board panel
1 <sup>st</sup> Aug – 13 <sup>th</sup> Aug	10	CH-9: PHYSIOLOGY & SPORTS	Role of psychology in enhancing sports performance		You tube videos on smart board panel
16 <sup>th</sup> Aug – 06 <sup>th</sup>	16	CH-1-5	REVISION		You tube videos on smart board panel

Sep					
07 <sup>th</sup> Sept –19 <sup>th</sup> Sept	<b>MICRO TEST - II</b>				
20 <sup>th</sup> Sept – 30 <sup>th</sup> Sept	09				
01 <sup>st</sup> Oct – 28 <sup>th</sup> Oct	18				
04 <sup>th</sup> Nov –14 <sup>th</sup> Nov	09	<b>REVISION FOR FIRST PREBOARD EXAM</b>			
17 <sup>th</sup> Nov – 30 <sup>th</sup> Nov	<b>FIRST PREBOARD EXAM</b>				
02 <sup>nd</sup> Dec – 30 <sup>th</sup> Dec	21	<b>REVISION FOR CBSE EXAMS &amp; PRACTICALS</b>			
<b>FIRST WEEK OF JAN' 25</b>	<b>SECOND PREBOARD EXAM</b>				
15 <sup>th</sup> Jan'25 onwards	<b>REVISION OF SYLLABUS/ENRICHMENT / REMEDIAL CLASSES</b>				