



# GOLDEN GATE GLOBAL SCHOOL

CLASS –XI Science

## HALF YEARLY SYLLABUS (2025-26)

Subject	Syllabus	Practical / Viva
English	<p>Hornbill –L1 The Portrait of a Lady , L2- We're not Afraid to Die , L3-Discovering Tut , P1 – A Photograph , P2-The Laburnum Top , P3- The Voice of the Rain Snapshot – L1 – The Summer of a Beautiful White Horse, L2-The Address, L3-Mother's Day Reading Comprehension Grammar- Integrated Exercises (gap filling, jumbled words, transformation of sentences) Writing – Advertisements, Posters, Speech Writing</p>	-
Physics	<ul style="list-style-type: none"><li>• Unit &amp; Measurement</li><li>• Motion in 1D &amp; 2D</li><li>• Laws of Motion</li><li>• Work, Energy &amp; Power</li><li>• System of Particle &amp; Rotational Motion</li></ul>	<p><b><u>LIST OF EXPERIMENTS:</u></b></p> <ol style="list-style-type: none"><li>1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.</li><li>2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.</li><li>3. To determine volume of an irregular lamina using screw gauge.</li><li>4. To determine radius of curvature of a given spherical surface by a spherometer.</li></ol> <p><b>NOTE:</b> Students are required to bring Theory Notebook, Practical File and Stationery.</p>

<p><b>Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Basic concepts of chemistry</li> <li>• Structure of Atom</li> <li>• Classification of Elements and Periodicity in Properties</li> <li>• Chemical bonding and molecular structure</li> </ul>	<p><b><u>LIST OF EXPERIMENTS:</u></b></p> <ol style="list-style-type: none"> <li>1. Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of Oxalic acid.</li> <li>2. Preparation of standard solution of Oxalic acid.</li> <li>3. Determination of strength of a given solution of HCl by titrating it against standard sodium Carbonate solution.</li> </ol> <p><b>NOTE: Students are required to bring Theory Notebook, Practical File, Lab coat and Stationery.</b></p>
<p><b>Mathematics</b></p>	<ol style="list-style-type: none"> <li>1. Sets</li> <li>2. Relation and Functions</li> <li>3. Trigonometric Functions</li> <li>4. Complex Numbers and Quadratic Equations</li> <li>5. Linear Inequalities</li> <li>6. Permutations And Combinations</li> <li>8. Sequences and Series</li> </ol>	<p>-</p>
<p><b>Biology</b></p>	<p><u>Unit -1</u>  Plant kingdom  Animal kingdom</p> <p><u>Unit -2</u>  Morphology of flowering plants  Anatomy of flowering plants</p> <p><u>Unit -3</u>  Cell  Biomolecules  Cell cycle and division</p>	<p><b><u>LIST OF EXPERIMENTS:</u></b></p> <ol style="list-style-type: none"> <li>1. Study of osmosis by potato osmometer.</li> <li>2. Study of distribution of stomata in the upper and lower surface of leaves.</li> <li>3. Study of rate of respiration with the help of germinating seeds.</li> <li>4. Identifying and describing specimens of different phylum based on their characteristics features.</li> </ol> <p><b>NOTE: Students are required to bring Theory Notebook, Practical File and Stationery.</b></p>

## Computer Science

Unit-I Computer System and Organization  
Chapter-1 Computer System Overview  
Chapter-2 Data Representation  
Chapter-3 Boolean Logics  
Unit-II Computational Thinking and Programming I  
Chapter-4 Introduction to Problem Solving  
Chapter-5 Getting Started with Python  
Chapter-6 Python Fundamentals  
Chapter-7 Data Handling  
Chapter-8 Flow of Control

### CBSE Practical List:

- Input a welcome message and display it.
- Input two numbers and display the larger / smaller number.
- Input three numbers and display the largest / smallest number.

- Generate the following patterns using nested loops:

Pattern-1	Pattern-2	Pattern-3
*	12345	A AB ABC
**	1234	ABCD ABCDE
***	123	
****	12	
*****	1	

- Write a program to input the value of x and n and print the sum of the following series:

➤  $1 + x + x^2 + x^3 + x^4 + \dots x^n$

➤  $1 - x + x^2 - x^3 + x^4 - \dots x^n$

➤  $x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} + \dots \frac{x^n}{n}$

➤  $x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \dots \frac{x^n}{n!}$

- Determine whether a number is a perfect number, an Armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.
- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.
- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list/tuple of elements, search for a given element in the list/tuple.
- Create a dictionary with the roll number, name and marks of

		n students in a class and display the names of students who have marks above 75.
<b>Physical Education</b>	<p>Chapter 1- Changing Trends &amp; Career in Physical Education</p> <p>Chapter 2- Olympic</p> <p>Chapter 3- Yoga</p> <p>Chapter 5- Physical Fitness, Wellness and Life Style</p> <p>Chapter 7- Fundamental of Anatomy, Physiology in Sports</p>	<p><b>* Physical Education Fitness Test*</b></p> <ul style="list-style-type: none"> <li>✓ 1. 50 Metre Sprint Test (Speed Test)</li> <li>✓ 2. 600 Metre Run/Walk Test (Cardiovascular Endurance)</li> <li>✓ 3. Sit and Reach Test (Flexibility Test)</li> <li>✓ 4. Shuttle Run (Agility Test)</li> <li>✓ 5. Modified Push-Ups (Upper Body Strength – For Girls)</li> <li>✓ 6. Push-Ups ( for boys )</li> <li>✓ 7. Crunches ( Core)</li> <li>✓ 8 yoga ( Different types of Asana)</li> <li>✓ 9 Practical file</li> </ul> <p>📁 Note for Students:</p> <p>Perform each test with proper sports uniform and sports shoes</p>
<b>Yoga</b>	<p>UNIT-1 Introduction to Yoga &amp; Yogic Practices</p>	<ul style="list-style-type: none"> <li>✓ 1. Yogic Sukshma Vyayama</li> <li>✓ 2. Asanas (with position-wise classification) <ul style="list-style-type: none"> <li>(a) Standing Asana</li> <li>(b) Sitting Asanas</li> <li>(c) Supine (Lying on back) Asanas</li> <li>(d) Prone (Lying on stomach) Asanas</li> </ul> </li> <li>✓ 3. Pranayama (Breathing Techniques)</li> <li>✓ 4. Meditation / Dhyan</li> <li>✓ 5 Mantra chanting</li> <li>✓ 6 Om chanting</li> </ul> <p>Learn Sanskrit + English names of asanas.  Know benefits, precautions, and steps of each asana.  Carry proper yoga uniform &amp; mat during practical .  1 - Practical file</p>

		2 - Project file
<b>Hindustani Vocal Music</b>	Chapter 1- General Introduction To Indian Music Raag – Bhimpalasi and Teentaal ( ikgun, dugun ,chaugun)	<b>Practical syllabus- Raag Bhimpalasi</b> * Ascendant * Descendant * Identifying notes *TEENTAAL <ul style="list-style-type: none"> <li>•Theka</li> <li>• Ikgun</li> <li>•Dugan</li> <li>•Chaugun</li> </ul>
<b>Home Science</b>	Chapter 1- Evolution of the Discipline of Home Science and its Relevance in Improving the Quality of Life Chapter 2- Understanding the self What Makes me ‘I’? Chapter 3- Influences on Identity Formation- Biological and Physical Changes Chapter 4- Influences on Identity Formation- Socio-Cultural Changes Chapter 5- Influences on Identity Formation- Emotional Changes Chapter 6- Influences on Identity Formation- Cognitive Changes Chapter 7- Food, Nutrition and Fitness Chapter 8- Adolescence Chapter 9- Management of Resources Chapter 10- Fabric Around Us Chapter 16- Health, Nutrition and Hygiene	Prepare a healthy snack for an adolescent

**Fine Arts**

**THEORY**

**Chapter 1- Prehistoric Rock Painting**

**Chapter 2- Arts of The Indus Valley**

**Chapter 3- Arts of The Mauryan Period**

**Chapter 4- Post Mauryan Trends in Indian Art and Architecture**

**LIST OF DRAWINGS:**

**1. Still life**

**2. Composition (placement of three objects)**

**NOTE: Students are required to bring shading pencils, long scale, eraser and sharpener.**

*GGGS.. because you deserve the best!!*