



GOLDEN GATE GLOBAL SCHOOL

CLASS –XI Science HALF YEARLY SYLLABUS

Session :- 2026-27

SUBJECT	THEORY	PRACTICAL / VIVA						
COMPUTER SCIENCE (Th -70, Pr -30)	Unit-I Computer System and Organization Chapter-1 Computer System Chapter-2 Encoding Schemes and Number System Chapter-4 Introduction to Problem Solving Chapter- 5 Getting Started with Python Chapter- 6 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:<table><tr><th>Pattern-1</th><th>Pattern-2</th><th>Pattern-3</th></tr><tr><td>* ** *** **** *****</td><td>12345 1234 123 12 1</td><td>A AB ABC ABCD ABCDE</td></tr></table> • 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.	Pattern-1	Pattern-2	Pattern-3	* ** *** **** *****	12345 1234 123 12 1	A AB ABC ABCD ABCDE
Pattern-1	Pattern-2	Pattern-3						
* ** *** **** *****	12345 1234 123 12 1	A AB ABC ABCD ABCDE						

		• 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.
PHYSICAL EDUCATION (Th -70, Pr -30)	Chapter 1- Changing Trends & Career in Physical Education Chapter 2- Olympic Chapter 3- Yoga Chapter 5- Physical Fitness , Wellness and Life Style	Physical Education Fitness Test 1. 50 Metre Sprint Test (Speed Test) 2. 600 Metre Run/Walk Test (Cardiovascular Endurance) 4. Shuttle Run (Agility Test) 5.Modified Push-Ups (Upper Body Strength – For Girls) 6.Push-Ups (for boys) 7. Crunches (Core) 8 yoga (Different types of Asana)
PAINTING (Th -30, Pr -70)	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 NOTE: Students are required to bring pencils, long scale, eraser, sharpener & colors.
PHYSICS (Th -70, Pr -30)	• Unit & Measurement • Motion in 1D & 2D • Laws of Motion • Work, Energy & Power • System of Particle & Rotational Motion • Gravitation	LIST OF EXPERIMENTS: 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. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. 4. To determine radius of curvature of a given spherical surface by a spherometer. NOTE: Students are required to bring Theory Notebook, Practical File and Stationery

CHEMISTRY (Th -70, Pr -30)	Chapter 1 Basic concepts of chemistry Chapter 2 Structure of Atom Chapter 3 Classification of Elements and Periodicity in Properties Chapter 4 Chemical bonding and molecular structure			<u>LIST OF EXPERIMENTS:</u> 1. Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of Oxalic acid. 2. Preparation of standard solution of Oxalic acid. 3. Determination of strength of a given solution of HCl by titrating it against standard sodium Carbonate solution. NOTE: Students are required to bring Theory Notebook, Practical File, Lab coat and Stationery.	
BIOLOGY (Th -70, Pr -30)	Unit -1 1. Biological Classification 2. Plant kingdom 3. Animal kingdom	Unit -2 7. Structural Organization in Animals	Unit -3 8. Cell 9. Biomolecules 10. Cell cycle and division	LIST OF EXPERIMENTS: 1. Study of distribution of stomata in the upper and lower surface of leaves. 2. Identifying and describing specimens of different phylum based on their characteristic features. NOTE: Students are required to bring Theory Notebook, lab coat, Practical File and Stationery.	
MATHEMATICS	1. Sets 2. Relation and Functions 3. Trigonometric Functions 4. Complex Numbers and Quadratic Equations 5. Linear Inequalities 6. Permutations And Combinations 7. Sequences and Series			-	
ENGLISH	Hornbill	Snapshot	Poem	Grammar	ASL
	1. The Portrait of a Lady 2. We're not Afraid to Die 3. Discovering Tut	1. The Summer of a Beautiful White Horse, 2. The Address, Mother's Day	1. A Photograph , 2. The Laburnum Top , 3. The Voice of the Rain	Integrated Exercises (gap filling, jumbled words, transformation of sentences) Writing – Advertisements, Posters, Speech Writing Reading Comprehension	

**HOME SCIENCE
(Th -70, Pr -30)**

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

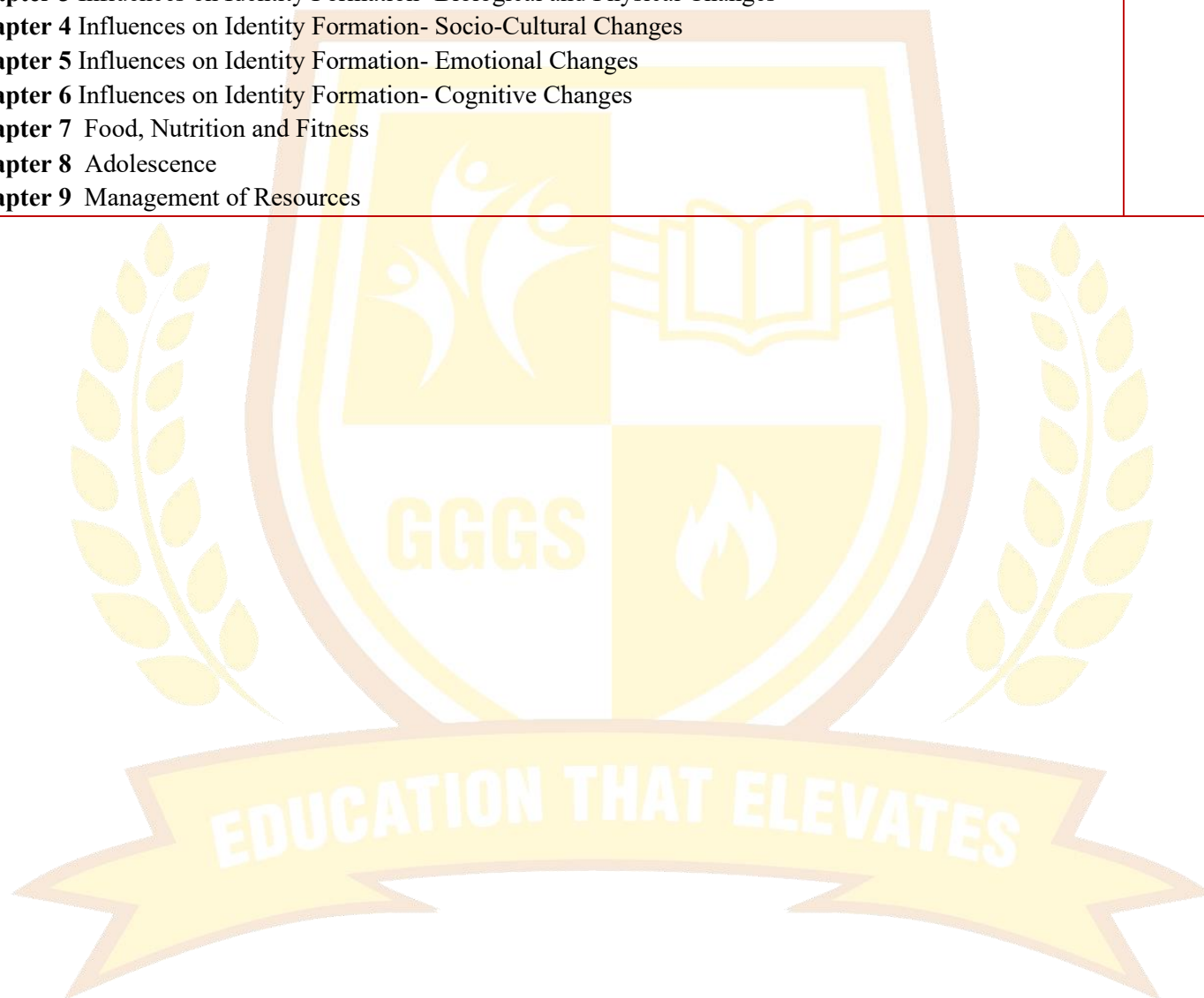
Chapter 6 Influences on Identity Formation- Cognitive Changes

Chapter 7 Food, Nutrition and Fitness

Chapter 8 Adolescence

Chapter 9 Management of Resources

**Prepare a healthy snack for
an adolescent**



GGGS.. because you deserve the best!!