



Gems Akademia Global School

SYLLABUS

SESSION 2022-2023

Grade – IX CAIE

ACCOUNTING			
TERM – I		TERM - II	
1.	Introduction to accounting	1.	Accounting rules
2.	Double entry book keeping- Part A	2.	Other payables and other receivables
3.	The Trial Balance	3.	Accounting for depreciation and disposal of non-current assets
4.	Double entry book keeping- Part B	4.	Irrecoverable debts and provisions for doubtful debts
5.	Petty cash book	5.	Bank reconciliation statements
6.	Business documents	6.	Journal entries and correction of errors
7.	Books of Prime entry		
8.	Financial Statements-A		
9.	Financial Statements-B		

BUSINESS STUDIES			
TERM – I		TERM - II	
1.	Understanding business activity	1.	Marketing
2.	People in business		

BENGALI			
TERM – I		TERM - II	
1.	দই (গদ্য)	1.	রাজার গল্প (গদ্য)
2.	রাধাচূড়া (পদ্য)	2.	ভোরাই (পদ্য)
3.	হাট (পদ্য)	3.	রানার (পদ্য)
4.	বাগধারা (অ-ট, ৬০টি)	4.	বাগধারা (ঠ-হ, ৬০টি)
5.	বাক্য পরিবর্তন	5.	বাক্য পরিবর্তন
6.	ব্যঙ্গনসন্ধি	6.	বিসর্গসন্ধি
7.	সমোচ্চারিত ভিন্নার্থক শব্দ	7.	ক্লোজ পরিচ্ছদ
8.	এক কথায় প্রকাশ – ৫০ টি	8.	COMPREHENSION - MCQ
9.	ক্লোজ পরিচ্ছদ	9.	COMPREHENSION- OPEN ENDED ANSWERS
10.	বোধ পরীক্ষণ	10.	বাক্য পরিবর্তন
3.	পত্র / প্রতিবেদন লিখন (১২০ শব্দ)	11.	ভাষণ লিখন (১২০ শব্দ)
11.	প্রবন্ধ লিখন (২০০ শব্দ)	12.	প্রবন্ধ লিখন (২০০ শব্দ)

BIOLOGY			
TERM – I		TERM - II	
1.	Characteristics & classification of living organisms	1.	Transport in Plants
2.	Cells	2.	Transport in Animals
3.	Movement into and out of cells	3.	Disease and Immunity
4.	Biological molecules	4.	Respiration and Gas Exchange
5.	Enzymes	5.	Coordination and Response
6.	Plant Nutrition		
7.	Human Nutrition		

CHEMISTRY			
TERM – I		TERM - II	
1.	States of matter.	1.	Chemical energetics
2.	Experimental techniques and chemical analysis.	2.	Chemical reactions
3.	Atoms, elements and compounds	3.	Acids, bases and salts
4.	Stoichiometry- chemical calculations	4.	The periodic table
5.	Electrochemistry	5.	Metals
6.	Chemical energetics	6.	Chemistry of environment
7.	Bonding and structure	7.	Revision terms 1
8.	Revision	8.	Projects and practical
9.	Practical	9.	Discussion of board type questions

FIRST LANGUAGE ENGLISH			
TERM – I		TERM - II	
1.	Unit 1	1.	Unit 5
2.	Unit 2	2.	Unit 6
3.	Unit 3	3.	Unit 7
4.	Unit 4	4.	Unit 8

HINDI			
TERM – I		TERM - II	
1.	अनौपचारिक पत्र	1.	ब्लॉग लेखन
2.	अपठित गद्यांश	2.	संवाद लेखन
3.	सार लेखन	3.	पुस्तक समीक्षा
4.	निबंध लेखन	4.	चित्र लेखन
5.	औपचारिक पत्र	5.	वाद – विवाद अभ्यास
6.	वाद – विवाद	6.	इ-मेल लेखन
7.	प्रतिवेदन लेखन	7.	साक्षात्कार लेखन
8.	फ़िल्म समीक्षा	8.	आई.जी.सी.एस.ई. आदर्श प्रश्न पत्र अभ्यास
9.	विज्ञापन लेखन	9.	श्रवण कौशल अभ्यास
10.	श्रवण कौशल अभ्यास		

INFORMATION AND COMMUNICATION TECHNOLOGY			
TERM – I		TERM - II	
1.	Ch1. Types and components of computer systems [Theory]	1.	Ch4. Networks and the effects of using them [Theory]
2.	Ch2. Input and output devices [Theory]	2.	Ch5. The effects of using IT [Theory]
3.	Ch3. Storage devices and media [Theory]	3.	Ch8. Safety and security [Theory]
4.	Ch.11. File management [Practical]	4.	Ch19. Presentations [Practical]
5.	Ch12. Images [Practical]	5.	Ch21 Website authoring [Practical]
6.	Ch13. Layout [Practical]	6.	Ch3. Storage devices and media [Theory] (Revision chapter from Term-1)
7.	Ch14. Styles [Practical]		
8.	Ch15. Proofing [Practical]		
9.	Ch17.Document production [Practical]		

MATHEMATICS			
TERM – I		TERM - II	
1.	Numbers	1.	Algebra 2
2.	Algebra 1	2.	Trigonometry
3.	Mensuration	3.	Graphs
4.	Geometry		

PHYSICS			
TERM – I		TERM - II	
1.	Physical quantities and measurement techniques	1.	Kinetic particle model of matter
2.	Motion	2.	Thermal properties and temperature
3.	Mass and Weight	3.	Transfer of thermal energy
4.	Density	4.	General properties of waves
5.	Forces	5.	Light – Reflection, Refraction, Thin lens, Dispersion
6.	Momentum	6.	Electromagnetic Spectrum
7.	Energy, Work and Power	7.	Sound
8.	Pressure	8.	Revision
9.	Revision	9.	Project/Practical
10.	Project and Practical		

PHYSICAL EDUCATION	
TERM – I	TERM - II
<p>1. Anatomy and physiology:</p> <p>A. Musculoskeletal System</p> <p>a) Functions of the skeleton, b) Skeleton, c) Joint types</p> <p>d) Joint structure and function, e) Movement at joints</p> <p>Muscles, f) Antagonistic muscle action, g) Muscle fiber types</p> <p>B. Respiratory system</p> <p>a) Pathway of air, b) Gaseous exchange at the alveoli, c) Mechanics of breathing, d) Breathing volumes and minute ventilation, e) The effect of exercise on these volumes.</p> <p>C. Circulatory system</p> <p>a) Components of blood</p> <p>b) Hemoglobin</p> <p>c) Blood vessels</p> <p>d) Heart structure and function</p> <p>e) The pathway of blood through the heart</p> <p>f) Cardiac output</p> <p>g) Stroke volume</p> <p>h) The effect of exercise on the heart.</p> <p>Practical test- Game- 1 (Videography)</p>	<p>1. Anatomy and physiology:</p> <p>Energy supply and the effects of exercise on the body</p> <p>Aerobic and anaerobic respiration</p> <p>Link duration and intensity to the use of aerobic and anaerobic respiration:</p> <p>Recovery, f) Factors affecting recovery time.</p> <p>Energy supply and the effects of exercise on the body</p> <p>Short-term effects of exercise, f) Long-term effects of exercise</p> <p>Simple biomechanics</p> <p>a) Principles of force: Explain the concepts of force, mass and acceleration, b) Applications of force</p> <p>a) Identify and explain the forces acting upon: b) Levers Identify and draw the three classes of levers: c) State an example of each type of lever in the body.</p> <p>2. Health, fitness and Training</p> <p>Health</p> <p>Health and well-being. b) Physical health and well-being. c) Mental health and well-being.</p> <p>Social health and well-being:</p> <p>Fitness</p> <p>Definition of fitness.</p> <p>The relationship between health and fitness.</p> <p>Exercise and fitness can have positive effects on physical, mental and social health.</p> <p>Health</p> <p>Diet and energy sources. e) Fitness Test protocols.</p> <p>f) Reasons for fitness testing</p> <p>VO2 max, Factors which affect VO2 max level</p> <p>Practical Test-1&2 (Video)</p>

** This syllabus is tentative