GHENT UNIVERSITY
GLOBAL CAMPUS

Online Aptitude Test Guide

겐트대학교 글로벌캠퍼스
온라인 입학시험 안내

ONLINE APTITUDE TEST GUIDELINES
온라인 입학시험 안내

This examination is designed to assess your academic competency in Mathematics and Chemistry, ensuring you are well-prepared for university-level coursework.
As you prepare, focus on building a strong understanding of fundamental concepts in both subjects.

본 시험은 겐트대학교 지원자의 수학 및 화학 분야의 학업 역량을 평가하기 위해 설계되었으며, 대학 수준의 학습 과정을 충분히 이수할 준비가 되어 있는지를 확인합니다.
시험을 준비하면서 두 과목의 핵심 개념을 탄탄히 이해하는 데 집중하시기 바랍니다.

Test Overview 시험개요

Evaluation Content (평가 내용)
Evaluation of academic competency in Mathematics and Chemistry.
지원자의 수학 및 화학 과목에 대한 학업 역량 평가

Test Duration (시험 시간)
120 minutes (No separate time limit per subject).
120분 (과목별 제한 시간 없음)

Question Format (출제 유형)
A total of 20 multiple-choice questions will be administered in English: 10 in Mathematics and 10 in Chemistry.
영어로 출제되는 객관식 총 20문항 (수학 10문항, 화학 10문항)

Passing Criteria (합격 기준)
Minimum passing score: 14 out of 20 points.
20점 만점 14점 이상 취득

Test Fee (응시 비용)
USD 65 per attempt (multiple attempts permitted).
응시 1회당 USD 65

Before Taking the Test 시험 전 준비사항

Laptop/Computer Requirement (노트북 준비)
A laptop or computer with a functional webcam is required.
The examination cannot be taken without webcam access.
정상적으로 작동하는 웹캠이 장착된 노트북을 준비하여야 하며, 웹캠이 없는 경우 응시가 불가함.

Payment Method (결제 카드)
Only internationally enabled credit cards (VISA / MasterCard) are accepted.
Domestic-only BC cards are not accepted.
해외 결제가 가능한 신용카드(VISA / MasterCard)만 사용 가능하며, 국내 전용 카드(예: BC 카드)는 사용이 불가함.

Passport Required (여권 준비)
Candidates must present a valid passport for identity verification.
Other forms of identification will not be accepted.
응시자는 반드시 본인 명의의 유효한 여권을 준비하여야 하며, 여권 외 신분증은 인정되지 않음.

Test Enquiries (시험 관련 문의)
Telephone: +82 (0)32 626 4114
Email: admission@ghent.ac.kr

ONLINE APTITUDE TEST GUIDELINES
준비사항 및 응시링크

Test Links 응시 링크

- **Account Creation Link for Online Aptitude Test**
  온라인 입학시험 응시를 위한 계정 생성 링크
  (For first-time access before taking the test)
  (시험 응시 전 신규 접속용)
- **Account Login Link for Online Aptitude Test**
  온라인 입학시험 계정 로그인 링크
  (For re-access after initial login)
  (시험 응시 후 재접속용)

QR Code Access QR코드 안내

Account Creation 계정 생성	Account Login 계정 로그인	KakaoTalk Consultation 카카오톡 상담	Campus Visit Consultation 방문 상담 신청

Regulations and Guidelines 시험 유의사항 안내

- The examination is conducted online and must be taken on a laptop computer with a working webcam.
  본 시험은 온라인으로 진행되며, 노트북을 활용하여 응시함.
- Payment must be made immediately prior to the examination.
  No refunds will be issued once payment is completed.
  해당 시험 결제는 시험 응시 직전 이루어지며, 결제 완료 이후에는 환불이 불가함.
- There is currently no limit to the number of attempts; however, this policy may be revised for the 2028 admissions cycle and beyond.
  본 시험은 현재 응시 횟수에 제한이 없으나, 2028학년도 신입생 모집부터 입학시험 응시 횟수 제한 기준이 변경될 수 있음.
- This is an open-book examination.
  Candidates may utilize a variety of academic materials.
  본 시험은 오픈북 시험으로 진행되며 다양한 학업 자료 활용이 가능함.
- Calculators are permitted during the examination.
  본 시험은 계산기 사용이 가능함.
- Wearing hats, hoods, or any attire that obstructs facial recognition is not permitted. The candidate's face must remain clearly visible on the screen throughout the examination.
  모자, 후드 등 얼굴 식별을 방해하는 복장 착용은 허용되지 않음. 응시자의 얼굴은 시험 시작부터 종료 시까지 화면에 명확히 보여야 함.
- The use of electronic devices—including smartphones, tablets, smartwatches, or headsets/earphones with microphones or communication features—is strictly prohibited during the examination.
  스마트폰, 태블릿, 스마트워치 등 전자기기와 마이크·통신 기능이 내장된 헤드셋 및 이어폰의 사용은 엄격히 금지됨.
- If the examination is interrupted and restarted during the session, it may be invalidated, regardless of the reason, including issues related to internet connectivity.
  시험 도중 중단되어 재시작되는 경우, 인터넷 연결 문제 등 사유와 관계없이 해당 시험은 무효로 처리됨.
- If individuals other than the examinee appear on screen, or if other voices are detected during the examination, it will be considered misconduct and may result in the examination being invalidated.
  시험 중 시험자 이외의 사람이 화면에 등장하거나 타인의 음성 또는 말소리가 들리는 경우, 부정행위로 간주되어 해당 시험이 무효 처리됨.

THE LIST OF TOPICS - MATHEMATICS

수학 출제 범위

※ This examination has been developed by international faculty members of the University and reflects the standards and breadth of both domestic and international high school curricula, including but not limited to the Korean National Curriculum, AP, IB, and SAT. All test questions are administered in English.

※ 본 시험은 본교의 외국인 교수진이 출제하며, 국내외 고등학교 교육과정의 수준과 범위(한국 수학 교육과정, AP, IB, SAT 등)를 반영하여 구성되고, 모든 시험문제는 영어로 출제됨.

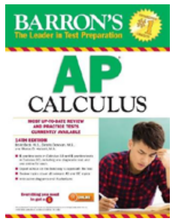
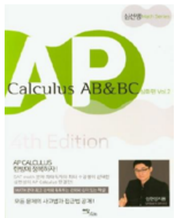
Calculus	1 Basic properties (such as increasing/decreasing, positive/negative, zeros) and graphs of polynomial functions, rational functions, irrational (root) functions	Algebra	1 Division of polynomials
	2 Absolute value function		2 Binomial theorem
	3 One-to-one functions and their inverses		3 Solving equations and inequalities involving polynomial, rational, irrational, exponential, and logarithmic functions
	4 Definition of a derivative, intuitive definition of derivative, derivatives of basic functions, and chain rule		4 Complex numbers
	5 Limits and continuity	Trigonometry	1 Degrees and radians
	6 Applications of derivatives: extreme values, Rates of change		2 Trigonometric functions sine, cosine, tangent, cotangent, and their graphs
	7 Equation of the tangent line to the curve of a graph at a certain point		3 Fundamental identity, addition, and subtraction formulas, double-angle formulas, half-angle formulas, product-to-sum formulas, and sum-to-product formulas[1]
	8 Definition of an antiderivative, antiderivatives of basic functions		4 Proving trigonometric identities
	9 The connection between derivatives and antiderivatives		5 Trigonometric equations
	10 Definite integrals		6 Properties of a triangle; Inverse trigonometric function
	11 Techniques of integration: substitution rule, integration by parts, partial fractions	Geometry	1 Points, coordinates, locus, and equations
	12 Area under curves		2 Equation of a circle
			3 Equation of a line

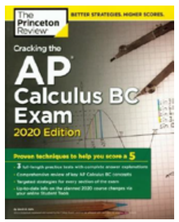
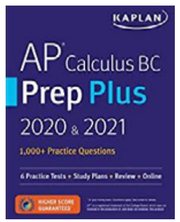
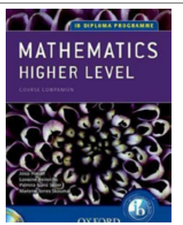
RECOMMENDED REFERENCE TEXTBOOKS

수학 준비교재 추천

※ The following guidebooks are recommended for reference purposes. Candidates are encouraged to use a broad selection of mathematics textbooks that cover advanced topics, such as calculus and geometry, including, but not limited to, AP, SAT, and IB materials, for their preparation.

※ 하단 교재는 참고용이며, 미적분, 기하 등 심화 과정을 포함한 AP, SAT, IB 등 다양한 수학 교재로 준비가 가능함.

AP Calculus		AP Calculus		SAT	
Book Cover	Title	Book Cover	Title		
	Barron's AP Calculus Difficulty: Advanced		AP Calculus AB & BC 심화편 (국내도서) Difficulty: Basic		BARRON's SAT MATH Level 2 Subject Test Difficulty: Basic

AP Calculus		AP Calculus		IB	
Book Cover	Title	Book Cover	Title		
	Princeton Review AP Calculus BC Difficulty: Basic		KAPLAN AP Calculus BC Difficulty: Intermediate		IB Math HL Textbook – OXFORD Difficulty: Basic

THE LIST OF TOPICS - CHEMISTRY
화학 출제 범위

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Chemistry	1 Elements, mixtures	
	2 Lavoisier Law	
	3 Symbolic representation of atoms and molecules, atomic mass, unit of atomic mass, electrons, and nucleons (protons and neutrons)	
	4 Oxidation number, ion, and in charge	
	5 Reactions between bases and acids	
	6 Reaction equations: ion-exchange reactions, precipitation reactions, combustion reactions, synthesis reactions	
	7 Bohr atom model, Bohr-Sommerfeld model, electron spin, Pauli rule	
	8 Energy levels: s, p, d, f, and orbital (basic knowledge)	
	9 Electronegativity, electron pairs	
	10 Covalent and ionic bonds, metal bonds	
Chemistry	11 Lewis notation from binary compounds and polyatomic compounds	
	12 Polar and apolar compounds	
	13 Intermolecular forces	
	14 Nomenclature of inorganic and organic compounds and ions (basic level)	
	15 Stoichiometry: molar mass, molar volume, Avogadro constant, ideal gas law, mass density	
	16 Concentration and concentration units, calculation of masses, volumes, concentrations, excess and limiting reagents	
	17 Reaction rate: factors influencing reaction rate, explanation via collision theory model	
	18 Chemical equilibrium: equilibrium constant, factors influencing chemical equilibrium, calculations with equilibrium data	
	19 Redox reactions: completion of redox reactions and interpretation of oxidation and reduction, sigma and pi bonds	
	20 Solubility of ionic compounds and density	

RECOMMENDED REFERENCE TEXTBOOKS
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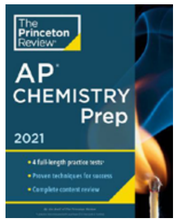
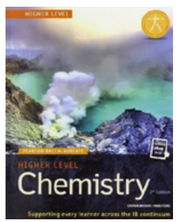
AP Chemistry

Book Cover	Title	Book Cover	Title
	**Barron's AP Chemistry** Difficulty: Advanced		**Princeton Review AP Chemistry** Difficulty: Basic

SAT

Book Cover	Title
	**Barron's SAT Subject Test Chemistry** Difficulty: Advanced

IB

Book Cover	Title
	**IB Chemistry HL – Pearson** Difficulty: Basic

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