

2026 블룸스버리 여름특강 커리큘럼

CLASS Info

강의대상	강의정보	강사
Y11	Y11 0606 월수금(8주) 9:00-11:00(120분)	
김정환 대표원장님		
학력	학사 University College London (UCL/영국) BSc. Mathematics	
담당과목	IB Mathematics AP Calculus AB/BC MYP Mathematics IGCSE Mathematics	

CLASS Curriculum

강의회차	강의내용
Lesson 1	Topic 1: Functions Extended 1.1 Domain and Range 1.2 Inverse Function 1.3 Composite Functions 1.4 Asymptotes & rational functions
Lesson 2	1.5 Function transformation 1.6 Modulus functions and solving inequalities 1.7 Function sketching and analysis
Lesson 3	1.8 심화문제 풀이 계산기 활용법
Lesson 4	Topic 2. Polynomial extended Polynomials 복습 2.1 Roots of a polynomial 2.2 Factor theorem 2.3 Vieta's formula Extended response question style 심화문제 연습
Lesson 5 - 6	Topic 3. Sequence and series extended 3.1 Sigma notation 3.2 Financial mathematics 계산기 활용법 Topic 3 extended response question style 연습
Lesson 7	Topic 4. Trigonometry and Trigonometric Functions 4.1 Trigonometric ratios and basic identities 4.2 Trigonometric functions and inverse trigonometric functions 4.3 Trigonometric identities
Lesson 8	4.3 Trigonometric identities
Lesson 9	4.4 Circular Measures 4.5 심화문제 연습 4.6 Extended Response Questions 연습
Lesson 10 - 11	Topic 5. Vectors 5.1 Vector notation 5.2 Vector operations 5.3 Position vectors 5.4 Vector geometry 5.5 Resolving velocities
Lesson 12	Topic 6. Calculus 6.1 Limits revisited 6.2 Continuity 6.3 First principal rule of differentiation 6.4 Differentiation methods

Lesson 13	6.4 Differentiation methods 6.5 Tangent and normal lines 6.6 Derivatives of advanced functions
Lesson 14 - 15	6.7 Higher derivatives 6.8 Curvature and function analysis using differential calculus
Lesson 16	6.9 Optimisation 6.10 Implicit differentiation
Lesson 17	6.11 Related rates Extended response question style 심화문제 연습
Lesson 18	Differentiation 심화문제 풀이
Lesson 19	6.12 Indefinite integral 6.13 Integration of various functions 6.13 Integration methods
Lesson 20	6.13 Integration methods 6.14 Integration by parts
Lesson 21	6.15 Introduction to Riemann sums 6.16 Introduction to fundamental theorem of calculus (definite integral) 6.17 Finding area under the curve
Lesson 22	6.18 Kinematics
Lesson 23	Additional maths 내용의 심화문제 연습 extended response question style 문제 풀이
Lesson 24	토픽 보충 수업

*** 강의진도는 학생들의 수업 이해도에 따라 달라질 수 있습니다.**

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CLASS Info

강의대상	강의정보	강사
Y11	Y11 0607 화목토(8주) 11:00-13:00(120분)	
한인지 부원장님		
학력	학사	
	Queen Mary University of London (영국) BSc. Mathematics with Finance and accounting	
담당과목	IGCSE Mathematics Key Stage 2-3 Mathematics MYP Mathematics UKMT (영국 수학경시대회)	

CLASS Curriculum

강의회차	강의내용
Lesson 1	Topic 1. Statistics 1.1 Collecting, representing and interpreting data 1.2 Mean, Median and Mode
Lesson 2	1.3 Lower and Upper Quatile, Inter quatile range (Box plot)
Lesson 3	1.4 Cumulative frequency
Lesson 4	Topic 2. Probability 2.1 Calculating probabilities of events
Lesson 5	2.2 Combined Events
Lesson 6	Topic 3. Sets 3.1 Understanding set notation 3.2 Venn diagram
Lesson 7	3.3 Set operations
Lesson 8	Topic 4. Mensurations 4.1 Perimeters and Areas
Lesson 9	4.2 Surface area and Volumes
Lesson 10	4.3 Varous geometric figures
Lesson 11	Topic 5. Geometry 5.1 Properties of shapes, angles
Lesson 12	5.2 Congruence and similarity
Lesson 13	Topic 6. Vectors and Transformations 6.1 Representing vectors and performing vector operations
Lesson 14	6.2 Geometric Transformations (Rotation, Reflection, Enlargement and Translation)
Lesson 15	6.2 Geometric Transformations (Rotation, Reflection, Enlargement and Translation)
Lesson 16	Topic 7. Advaned Algebra 7.1 Quadratic equations, functions
Lesson 17	7.2 Quadratic graphs
Lesson 18	7.2 Quadratic graphs
Lesson 19	7.2 Quadratic graphs
Lesson 20	Topic 8. Advaned Trigonometry 8.1 Non-right-angled triangles
Lesson 21	8.2 Trigonometric identities
Lesson 22	8.2 Trigonometric identities
Lesson 23	Topic 9. Advaned Geometry 9.1 Circle theorem
Lesson 24	9.2 More complex geometric proofs.

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CLASS Info

강의대상	강의정보	강사
Y11	Y11 0606 월수금(8주) 9:00-11:00(120분)	
한인지 부원장님		
학력	학사	
	Queen Mary University of London (영국) BSc. Mathematics with Finance and accounting	
담당과목	IGCSE Mathematics Key Stage 2-3 Mathematics MYP Mathematics UKMT (영국 수학경시대회)	

CLASS Curriculum

강의회차	강의내용
Lesson 1	Topic 1. Trigonometric Function
Lesson 2	1.1 Ratios and Graphs
Lesson 3	1.2 Inverse functions
Lesson 4	1.2 Inverse functions
Lesson 5	1.2 Equations and Identities
Lesson 6	1.2 Equations and Identities
Lesson 7	Topic 1 심화문제풀이
Lesson 8	Topic 2. Vectors 2.1 Vectors in Two Dimensions
Lesson 9	2.2 Relative velocity
Lesson 10	2.3 Vector operation
Lesson 11	2.4 Vector problem involving position vector and constant velocity
Lesson 12	2.4 Vector problem involving position vector and constant velocity
Lesson 13	Topic 2. 심화문제풀이
Lesson 14	Topic 3. Differentiation 3.1 Gradient of a curve (Various functions)
Lesson 15	3.2 Chain rule, Product rule and Quotient rule
Lesson 16	3.2 Chain rule, Product rule and Quotient rule
Lesson 17	3.3 Gradients, Tangents and Normals
Lesson 18	3.3 Gradients, Tangents and Normals
Lesson 19	3.4 Approximation
Lesson 20	3.5 Rate of change
Lesson 21	3.5 Rate of change
Lesson 22	3.6 Stationary Points, Maxima and Minima
Lesson 23	3.6 Stationary Points, Maxima and Minima
Lesson 24	Topic 3. 심화문제풀이

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CLASS Info

강의대상		강의정보		강사
Y11		Y11 0606 월수금(8주) 18:30-20:30(90분)		
김수민 선생님				
학력				
학사	Imperial College London(영국) BSc.Mathematics			
석사	University College London(UCL/영국) MSc. Computational Finance			
담당과목				
IB, IGCSE Mathematics STEP, MAT 시험대비				

CLASS Curriculum

강의회차	강의내용
Lesson 1	Topic 1: Trigonometry 1.1 Trigonometric Ratios
Lesson 2	1.2 Trigonometric Graphs 1.3 Minimum and Maximum
Lesson 3	1.4 Modulus Trigonometric Functions 1.5 Reciprocal Trigonometry
Lesson 4	1.6 Solving Trigonometric Equations 1.7 Proving Trig Expressions
Lesson 5	1.8 Bearing
Lesson 6	Trigonometry 심화문제 풀이
Lesson 7	Topic 2: Vectors 2.1 Understanding Vectors 2.2 Position Vectors
Lesson 8	2.3 Velocity Vectors 2.4 Vector Equations
Lesson 9	2.5 Vector Problem involving position vector and constant velocity
Lesson 10	2.6 Real Life Applications on Vectors & IB-level vectors
Lesson 11	Topic 3: Differentiation 3.1 Derivative rules
Lesson 12	3.2 Turning Points and its Nature 3.3 Practical Maximum and minimum problems
Lesson 13	3.4 Small Increments and Approximations 3.5 Related Rates
Lesson 14	3.6 Further Application of Differentiation 3.7 Optimisation
Lesson 15	Differentiation 심화 문제 연습
Lesson 16	Topic 4: Integration 4.1 Integrating Various Types of Functions 4.2 Antidifferentiation
Lesson 17	4.3 Definite Integration
Lesson 18	4.4 Further Indefinite Integral
Lesson 19	4.5 Finding Equation of curve
Lesson 20	4.6 Area under a curve
Lesson 21	4.7 Area of Regions bounded by a Line and a Curve
Lesson 22	Topic 5: Kinematics 5.1 Kinematics using Calculus
Lesson 23	5.2 Total Distance 5.3 Average Speed
Lesson 24	5.4 Graphs related to Kinematics

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CLASS Info

강의대상	강의정보	강사
Y11	Y11 Eng 월수금(7주) 11:00-13:00(120분)	
Jack 선생님		
경력		
학사 University of Liverpool — English Language and Literature (BA) 석사 King's College London — English Literature (MA) 박사 University of Glasgow — English Literature (PhD)		
담당과목		
IB English Lang Lit, English B GCSE English, A-level English		

CLASS Curriculum

강의회차	강의내용
Lesson 1	Shakespeare — Hamlet Act 1
Lesson 2	Shakespeare — Hamlet Act 2
Lesson 3	Shakespeare — Hamlet Act 3
Lesson 4	Shakespeare — Hamlet Act 4
Lesson 5	Shakespeare — Hamlet Act 5
Lesson 6	Shakespeare — Hamlet review
Lesson 7	Prose (novel) — <i>Notes from Underground</i> , Part 1, Chapters 1-3
Lesson 8	Prose (novel) — <i>Notes from Underground</i> , Part 1, Chapters 4-6
Lesson 9	Prose (novel) — <i>Notes from Underground</i> , Part 1, Chapters 7-10
Lesson 10	Prose (novel) — <i>Notes from Underground</i> , Part 2, i
Lesson 11	Prose (novel) — <i>Notes from Underground</i> , Part 2, ii
Lesson 12	Poetry (20th century American) — Wallace Stevens
Lesson 13	Poetry (20th century American) — Wallace Stevens
Lesson 14	Poetry (20th century American) — T. S. Eliot
Lesson 15	Poetry (20th century American) — T. S. Eliot
Lesson 16	Poetry (20th century American) — T. S. Eliot
Lesson 17	Modern Drama — A View from the Bridge, part 1
Lesson 18	Modern Drama — A View from the Bridge, part 2
Lesson 19	Modern Drama — A View from the Bridge, part 3
Lesson 20	Modern Drama — A View from the Bridge, part 4
Lesson 21	Review: Shakespeare; prose; poetry; drama

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CLASS Info

강의대상		강의정보		강사
Y11		Y11 Bio 화목토(8주) 19:00-21:00(120분)		
정지원 부원장님				
학력	고등	뉴질랜드 Kristin School - IB 수석 졸업 NZ IB Top Scholar Award 수여		
학사	University of Cambridge, Clare College (영국) BSc. Natural Sciences (Biology, Chemistry)			
담당과목	Biology / Chemistry : IB, IGCSE			

CLASS Curriculum

강의회차	강의내용
Lesson 1	Topic 6 Photosynthesis – definition, word equation, chlorophyll, chloroplasts
Lesson 2	Topic 6 Photosynthesis – limiting factors, rate of photosynthesis, limiting factor graphs
Lesson 3	Topic 6 Leaf structure and adaptations for photosynthesis; mineral requirements – nitrate ions and magnesium ions
Lesson 4	Paper 6 Photosynthesis practical – starch test, limiting factor data, graph skills, evaluation of method
Lesson 5	Topic 8 Xylem and phloem – structure, function, differences
Lesson 6	Topic 8 Water uptake – root hair cells, osmosis, movement of water through root and stem
Lesson 7	Topic 8 Transpiration – transpiration stream, factors affecting transpiration, effects of environment
Lesson 8	Paper 6 Plant transport practical – potometer data, identifying errors, suggesting improvements
Lesson 9	Topic 14 Nervous system – central nervous system, receptors, neurones, reflex action, reflex arc
Lesson 10	Topic 14 Sense organs and the eye – structure of eye, pupil reflex, accommodation
Lesson 11	Topic 14 Hormones and coordination – adrenaline, homeostasis, control of blood glucose, diabetes
Lesson 12	Topic 15 Drugs – definition, medical and misuse of drugs, antibiotics, antibiotic resistance, alcohol, tobacco smoke
Lesson 13	Topic 16 Asexual and sexual reproduction – definitions, advantages, disadvantages; flower structure
Lesson 14	Topic 16 Pollination, fertilisation, seed and fruit formation, seed dispersal, germination
Lesson 15	Topic 16 Human reproduction – male and female reproductive systems, fertilisation, implantation, development of fetus
Lesson 16	Topic 16 Pregnancy, placenta, antenatal care, STIs including HIV
Lesson 17	Topic 17 Chromosomes, genes, DNA, protein synthesis overview; mitosis and meiosis
Lesson 18	Topic 17 Monohybrid inheritance – alleles, dominant/recessive, genotype, phenotype, Punnett diagrams
Lesson 19	Topic 17 Codominance, sex determination, inheritance problems
Lesson 20	Paper 6 Genetics and reproduction data – ratios, tables, interpretation, conclusion, evaluation
Lesson 21	Topic 18 Variation – continuous and discontinuous variation; genetic and environmental causes; adaptation and natural selection
Lesson 22	Topic 19 Food chains, food webs, trophic levels, energy flow, pyramids of number and biomass
Lesson 23	Topic 20 Human influences on ecosystems – habitat destruction, pollution, conservation, food supply, population growth
Lesson 24	Topic 21 Biotechnology and genetic modification – fermentation with yeast, fermenters, genetic modification, advantages and disadvantages

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CLASS Info

강의대상	강의정보	강사
Y11	Y11 Phy 월수금(8주) 14:00-16:00(120분)	
김의민 선생님		
학력		
학사	서울대학교 기계항공공학	
담당과목	Physics: AP, IB, IGCSE Chemistry: AP, IGCSE	

CLASS Curriculum

강의회차	강의내용	강의주제
Lesson 1	Fundamentals of physics How to solve exam questions	
Lesson 2	Fundamentals of physics How to solve exam questions	
Lesson 3	Fundamentals of physics How to solve exam questions	
Lesson 4	Topic 4.2 Electrical quantities [이론]	
Lesson 5	Topic 4.2 Electrical quantities [이론]	
Lesson 6	Topic 4.2 Electrical quantities [문제풀이]	
Lesson 7	Topic 4.3 Electric circuits [이론]	
Lesson 8	Topic 4.3 Electric circuits [이론]	
Lesson 9	Topic 4.3 Electric circuits [문제풀이]	
Lesson 10	Topic 4.4 Electrical safety [이론]	
Lesson 11	Topic 4.1 Simple phenomena of magnetism [이론]	
Lesson 12	Topic 4.4 Electrical safety [문제풀이] Topic 4.1 Simple phenomena of magnetism [문제풀이]	
Lesson 13	Topic 4.5 Electromagnetic effects [이론]	
Lesson 14	Topic 4.5 Electromagnetic effects [이론]	
Lesson 15	Topic 4.5 Electromagnetic effects [문제풀이]	
Lesson 16	Topic 4.5 Electromagnetic effects [이론]	
Lesson 17	Topic 4.5 Electromagnetic effects [이론]	
Lesson 18	Topic 4.5 Electromagnetic effects [문제풀이]	
Lesson 19	Topic 5.1 The nuclear model of the atom [이론]	
Lesson 20	Topic 5.2 Radioactivity [이론]	
Lesson 21	Topic 5.1 The nuclear model of the atom [문제풀이] Topic 5.2 Radioactivity [문제풀이]	
Lesson 22	Topic 6.1 Earth and the Solar system [이론]	
Lesson 23	Topic 6.2 Stars and the Universe [이론]	
Lesson 24	Topic 6.1 Earth and the Solar system [문제풀이] Topic 6.2 Stars and the Universe [문제풀이]	

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CLASS Info

강의대상	강의정보	강사
Y11	Y11 Chem 월수금(8주) 18:00-20:00(120분)	
김의민 선생님		
학력		
학사	서울대학교 기계항공공학	
담당과목	Physics: AP, IB, IGCSE Chemistry: AP, IGCSE	

CLASS Curriculum

강의회차	강의내용	강의주제
Lesson 1	Topic 2 : Atoms, elements and compounds [이론]	첫 주에는 Y10 내용 리뷰 진행됩니다.
Lesson 2	Topic 3 : Stoichiometry [이론]	첫 주에는 Y10 내용 리뷰 진행됩니다.
Lesson 3	Topic 6.4 Redox [이론]	첫 주에는 Y10 내용 리뷰 진행됩니다.
Lesson 4	Topic 4 : Electrochemistry [이론]	
Lesson 5	Topic 4 : Electrochemistry [이론]	
Lesson 6	Topic 4 : Electrochemistry [문제풀이]	
Lesson 7	Topic 6.3 Reversible reactions [이론]	
Lesson 8	Topic 6.3 Reversible reactions [이론]	
Lesson 9	Topic 6.3 Reversible reactions [문제풀이]	
Lesson 10	Topic 7 : Acids, bases and salts [이론]	
Lesson 11	Topic 7 : Acids, bases and salts [이론]	
Lesson 12	Topic 7 : Acids, bases and salts [문제풀이]	
Lesson 13	Topic 9 : Metals [이론]	
Lesson 14	Topic 9 : Metals [이론]	
Lesson 15	Topic 9 : Metals [문제풀이]	
Lesson 16	Topic 11.1-11.4 : Organic chemistry [이론]	
Lesson 17	Topic 11.1-11.4 : Organic chemistry [이론]	
Lesson 18	Topic 11.1-11.4 : Organic chemistry [문제풀이]	
Lesson 19	Topic 11.5-11.8 : Organic chemistry [이론]	
Lesson 20	Topic 11.5-11.8 : Organic chemistry [이론]	
Lesson 21	Topic 11.5-11.8 : Organic chemistry [문제풀이]	
Lesson 22	Topic 12.1-12.3 : Experimental techniques and chemical analysis [이론]	
Lesson 23	Topic 12.4-12.5 : Experimental techniques and chemical analysis [이론]	
Lesson 24	Topic 12 : Experimental techniques and chemical analysis [문제풀이]	

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