

AP Biology

1. 선생님 : 린 / Linne

2. 경력 및 약력 :

이화여자대학교 생명과학과 학사

이화여자대학교 생명,약학부 석사

Biology 과목 관리 및 AP Biology 강의 경력 약 10년

3. 수업기간 / 수업일 / 시간 / 비고

S1 : 6/10/월 ~ 7/6/토 월,수,금 4:00~7:00

S2 : 7/8/월 ~ 8/3/토 월,수,금 4:00~7:00

4. 수업에 대한 소개, 수업계획

- AP Biology의 전반적인 내용 커버
- 학교 GPA 대비 및 5월 AP biology 시험 대비
- College Board 기출 및 다양한 형식의 FRQ와 MCQ 문제풀이
- 단원 별 개념 이해 및 문제풀이뿐만 아니라,
다양한 단원을 아우르는 통합적 파악과 분석을 통해 AP Biology의 유기적 이해 도모

5. 진도표

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| 1강 | Unit 1 : Chemistry of Life Structure and chemical properties of water Function and properties of macromolecules Structure of DNA and RNA |
| 2강 | Unit 2 : Cell Structure and Function Cellular components and functions Cell interacting with its environment Structure and function of the cell membrane Cell regulatory mechanisms and cellular compartmentalization |
| 3강 | Unit 1 & 2 : Review and Problem Solving |

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| 4강 | Unit 3 : Cellular Energetics Structure and function of enzymes The role of energy in living systems Processes of photosynthesis and cellular respiration Molecular diversity and cellular response to environmental changes |
| 5강 | Unit 4 : Cell Communication and Cell Cycle Mechanisms of cell communication and signal transduction Events and steps of cell cycle Cell cycle control and cancer |
| 6강 | Unit 3 & 4 : Review and Problem Solving |
| 7강 | Unit 5 : Heredity Process and function of meiosis Concepts of genetic diversity Mendel's laws and non-Mendelian inheritance Factors affecting inheritance and gene expression |
| 8강 | Unit 6 : Gene Expression and Regulation Roles and functions of DNA and RNA Mechanisms of gene expression in relation to genotype and phenotype Mutations and genetic diversity Genetic engineering and biotechnology |
| 9강 | Unit 5 & 6 : Review and Problem Solving |
| 10강 | Unit 7 : Natural Selection Evidential support for evolution and common ancestry Mechanisms of natural selection and speciation Environmental and human-caused factors in evolution Charting species ancestry through phylogenetic trees and cladograms Extinction Models of the origin of life on Earth |
| 11강 | Unit 8 : Ecology Communication and responses to environmental changes Energy flow within and across ecosystems Factors in growth, density, and success of populations Factors in community and ecosystem dynamics Invasive species, human interaction, and environmental changes |
| 12강 | Unit 7 & 8 : Review and Problem Solving |