

August 2018- Honors Biology:

Required in Science Notebook – Project – Quiz or Test – Midterm Exam – No School – End of Quarter

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| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 START READING CHAPTER 1 The Science of Biology Periodic Table Measurement Handout Sci notation | 14 Controlled Experiments Lecture Policy Signature Due | 15 Science Lab lab safety tutorial Size and Scale lab | 16 Lab Safety Quiz Design a Controlled Experiment | 17 Nature of Science Lecture Umbrellaology START READING CHAPTER 2 The Chemistry of Life | 18 |
| 19 | 20 Atoms and Isotopes Lecture | 21 PhET simulations Build an Atom Isotopes and Atomic Mass | 22 Chemical Compounds Lecture | 23 Amoeba Sisters: Properties of Water Atoms and Compounds Quiz Properties of Water Lecture | 24 Properties of Water Lecture | 25 |
| 26 | 27 Amoeba Sisters: Biomolecule Band Carbon compounds lecture | 28 Carbon compounds lecture | 29 Properties of water lab | 30 Amoeba Sisters: Enzymes Chemical Reactions and Enzymes Lecture | 31 Review for test Study session in room 216 at 3:45pm | |

September 2018 - Honors Biology:

Required in Science Notebook – Project – Quiz or Test – Midterm Exam – No School – Half Day – End of Quarter

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| 2 | 3 Labor Day – No School | 4 Chapters 1 & 2 Test START READING CHAPTER 7 Cell Structure and Function | 5 Microscope tutorial | 6 Amoeba Sisters: Prokaryotes and Eukaryotes Cell theory and microscope lecture | 7 Amoeba Sisters: Introduction to Cells Cell analogy project | 8 |
| 9 | 10 No School – Teacher Planning | 11 Cell analogy project | 12 Egg osmosis experiment Cell transport lecture | 13 Egg osmosis experiment Cell transport lecture | 14 Egg osmosis experiment Cell Transport quiz | 15 |
| 16 | 17 Egg osmosis experiment Homeostasis and levels of organization lecture | 18 Start Reading Chapter 8 ATP and energy lecture | 19 No School—Offices Closed | 20 Photosynthesis lecture | 21 Photosystems and electron transport chain lecture Photosynthesis quiz | 22 |
| 23 | 24 Start Reading Chapter 9 Cellular respiration and fermentation Respiration overview lecture | 25 Glycolysis, Krebs Cycle, and Electron Transport Chain lecture | 26 Yeast fermentation experiment | 27 Respiration foldable | 28 Fermentation lecture Respiration quiz | 29 |

October 2018 - Honors Biology:

Required in Science Notebook – Project – Quiz or Test – Midterm Exam – No School – Half Day – End of Quarter

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|----|---|--|---|--|---|----|
| 30 | 1 Review for test Study session in room 216 at 3:45pm | 2 Chapter 7, 8 & 9 Test | 3 Surface area to volume ratio START READING CHAPTER 10 Cell Growth and Division | 4 Chromosomes and cell division lecture | 5 Cell cycle, cancer, and differentiation lecture | 6 |
| 7 | 8 Mitosis cell count | 9 Mitosis cell count | 10 START READING CHAPTER 11 Introduction to Genetics Mendel's experiments lecture Begin genetics problem set | 11 Probability and Punnett squares lecture Monohybrid cross independent practice | 12 Probability and Punnett squares lecture Dihybrid cross independent practice Genetics quiz | 13 |
| 14 | 15 Non-Mendelian inheritance lecture Independent practice | 16 Meiosis lecture Law of independent assortment | 17 Gene linkage lecture | 18 Work on genetics problem set End of Q1 | 19 No School – Teacher Planning | 20 |
| 21 | 22 Finish Mendelian genetics, overview of non-Mendelian patterns of inheritance. | 23 Meiosis and independent assortment. | 24 Gene linkage handout, worked examples, time to work on problem set. | 25 Review for test Study session in room 216 at 3:45pm | 26 Chapters 10 & 11 Test Start Reading Chapter 12 Genetics problem set due | 27 |
| 28 | 29 DNA extraction lab DNA experiments lecture | 30 Finish DNA experiments lecture, begin DNA structure | 31 Structure of DNA and replication lecture | | | |

November 2018 - Honors Biology:

Required in Science Notebook – Project – Quiz or Test – Midterm Exam – No School – Half Day – End of Quarter

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|----|--|---|--|---|---|----|
| | | | | 1 DNA replication lecture | 2 DNA Replication foldable START READING CHAPTER 13 RNA and protein synthesis | 3 |
| 4 | 5 Types of RNA and transcription lecture | 6 No School—Teacher Planning | 7 Ribosomes and Protein Synthesis lecture DNA experiments quiz | 8 Transcription and Translation decoding | 9 Transcription and Translation decoding | 10 |
| 11 | 12 No School—Offices Closed | 13 Gene Expression lecture Transcription and translation quiz | 14 PhET Gene Expression simulation | 15 Review for test Study session in room 216 at 3:45pm | 16 Chapters 12 & 13 Test START READING CHAPTER 14 Human heredity | 17 |
| 18 | 19 No School – Teacher Planning | 20 No School – Teacher Planning | 21 No School – Offices Open | 22 No School – Offices Closed | 23 No School – Offices Closed | 24 |
| 25 | 26 Human chromosomes lecture | 27 Genetic disorders lecture | 28 Human genome lecture | 29 Human karyotype investigation | 30 Human karyotype investigation | |

| December 2018 - Honors Biology: Required in Science Notebook - Project - Quiz or Test - Midterm Exam - No School - Half Day - End of Quarter | | | | | | |
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| 2 | 3 Human Pedigrees Lecture Human pedigree project | 4 Human pedigree project | 5 START READING CHAPTER 15 Genetic engineering Pedigree quiz | 6 Selective breeding lecture | 7 Recombinant DNA lecture | 8 |
| 9 | 10 CRISPR | 11 Review for test Study session in room 216 at 3:45pm | 12 Chapters 14 & 15 Test | 13 Midterm Review | 14 Midterm Review | 15 |
| 16 | 17 Midterm? | 18 Midterm? | 19 Midterm? | 20 Midterm? | 21 End of Q2 | 22 |
| 23 | 24 | 25 WINTER | 26 BREAK | 27 | 28 | 29 |