

Teacher: Mr. Lopez
Class: Biology 1A

Semester: Fall 2004-2005
Date: July, 2004

	week: 1 Date:	week: 2 Date:	week: 3 Date:	week: 4 Date:
Topics	<ul style="list-style-type: none"> Course introduction Lab Safety 	<ul style="list-style-type: none"> Introduction to chemistry Chapter summarizing Note Taking 	<ul style="list-style-type: none"> Biochemistry: Compounds of life 	<ul style="list-style-type: none"> Microscopes Cell Structure Cell Function
Standards	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> 1b, 1h 	<ul style="list-style-type: none"> 1b, 1h, 4f, 5a 	<ul style="list-style-type: none"> 1a, 1c, 1d, 1e, 1g, 1j
Lecture Notes	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Atoms, bonding, compounds, chemical formulas, water, solutions, H⁺ and OH⁻ ions, acids and bases, pH 	<ul style="list-style-type: none"> Carbon, macromolecules, Chemical reactions, enzymes 	<ul style="list-style-type: none"> Modern Microscopes Tour of the Cell: prokaryotes v. eukaryotes, nucleus, organelles, cytoplasm
Readings	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Chapter 2 	<ul style="list-style-type: none"> Chapter 2 	<ul style="list-style-type: none"> Chapter 3
Homework	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Vocabulary Miller/Levine p. 45, 1-4; p. 46, 1-7 Chemistry Handout Chapter summary 	<ul style="list-style-type: none"> Vocabulary Miller/Levine p. 45, 5-9; p. 46, 8-14 Macromolecule/Enzyme Handout 	<ul style="list-style-type: none"> Vocabulary Miller/Levine p. 71, 1-9; p. 71, 1-12. Cell Handout
Labs & Projects	<ul style="list-style-type: none"> 		<ul style="list-style-type: none"> Identifying carbohydrates Enzyme/paperclip 	<ul style="list-style-type: none"> Microscope Lab
AV, Internet	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Overhead-lecture Chemistry video 	<ul style="list-style-type: none"> Overhead-lecture 	<ul style="list-style-type: none"> Overhead-lecture
Demos	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Demonstrations: Sugar/sulfuric acid, hydrogen bonding, pH household items 	<ul style="list-style-type: none"> Surface tension demo 	<ul style="list-style-type: none">
Special	<ul style="list-style-type: none"> Lab Safety Worksheet, Student safety contract 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Tests	<ul style="list-style-type: none"> Pre-post test, 	<ul style="list-style-type: none"> Friday quiz 	<ul style="list-style-type: none"> Thursday quiz 	<ul style="list-style-type: none"> Thursday quiz Unit test
Points	<ul style="list-style-type: none"> Worksheet: 10 points Safety Contract: 10 points 	<ul style="list-style-type: none"> Quiz: 5 	<ul style="list-style-type: none"> Quiz: 5 	<ul style="list-style-type: none"> Quiz: 5 Unit test: 50 Lab: 20

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	week: 5 Date:	week: 6 Date:	week: 7 Date:	week: 8 Date:
Topics	<ul style="list-style-type: none"> Cell Transport 	<ul style="list-style-type: none"> Photosynthesis 	<ul style="list-style-type: none"> Cellular Respiration Midterm Review 	<ul style="list-style-type: none"> Transport Labs
Standards	<ul style="list-style-type: none"> 1a 	<ul style="list-style-type: none"> 1f, 1g 	<ul style="list-style-type: none"> 1g, 1i 	<ul style="list-style-type: none"> 1a
Lecture Notes	<ul style="list-style-type: none"> Transport: cell membrane, cell wall, diffusion, facilitated diffusion, passive/active transport, osmosis, osmotic pressure 	<ul style="list-style-type: none"> Photosynthesis, light reaction, light-independent reactions, ATP synthesis 	<ul style="list-style-type: none"> Cellular Respiration, glycolysis, Krebs cycle, electron transport chain, Review: basic chemistry, biochemistry, cell structure, cell transport 	<ul style="list-style-type: none"> None
Readings	<ul style="list-style-type: none"> Chapter 3 	<ul style="list-style-type: none"> Chapter 4 Handout 	<ul style="list-style-type: none"> Chapter 4 Handout 	<ul style="list-style-type: none"> Chapter 3
Homework	<ul style="list-style-type: none"> Handout Vocabulary 	<ul style="list-style-type: none"> Miller/Levine p.97, problems 1-8, p. 98, problems 1-10 Vocabulary 	<ul style="list-style-type: none"> Handout: review questions Cellular Respiration Vocabulary Handout 	<ul style="list-style-type: none"> Lab Write-up
Labs & Projects	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Diffusion/osmosis lab
AV, Internet	<ul style="list-style-type: none"> Overhead of lecture 	<ul style="list-style-type: none"> Overhead of lecture 	<ul style="list-style-type: none"> Overhead of lecture 	<ul style="list-style-type: none"> None
Demos	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> None
Special	<ul style="list-style-type: none"> Grades are due 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Notebook review
Tests	<ul style="list-style-type: none"> Thursday quiz 	<ul style="list-style-type: none"> Thursday quiz 	<ul style="list-style-type: none"> Thursday quiz Midterm 	<ul style="list-style-type: none"> Thursday quiz
Points	<ul style="list-style-type: none"> Quiz: 5 	<ul style="list-style-type: none"> Quiz: 5 	<ul style="list-style-type: none"> Quiz: 5 Midterm: 100 	<ul style="list-style-type: none"> Thursday quiz Lab: 20

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	week: 9 Date:	week: 10 Date:	week: 11 Date:	week: 12 Date:
Topics	<ul style="list-style-type: none"> Cell Division Cancer Tissue Specialization 	<ul style="list-style-type: none"> Introduction to Genetics 	<ul style="list-style-type: none"> Nucleic acids Central Dogma 	<ul style="list-style-type: none"> Gene Expression
Standards	<ul style="list-style-type: none"> 2a, 2b, 2c, 2d, 2e 	<ul style="list-style-type: none"> 2c, 2d, 2e, 2g, 3a, 3b 	<ul style="list-style-type: none"> 1d, 1e, 1g, 3a, 3b 	<ul style="list-style-type: none"> 4b, 4c, 4d, 4e
Lecture Notes	<ul style="list-style-type: none"> Cell growth, cell cycle, mitosis Cancer Cell types, organization: tissues, organs, organ systems. 	<ul style="list-style-type: none"> Mendelian genetics, genes, chromosomes, meiosis, genetic crosses 	<ul style="list-style-type: none"> DNA, nucleotides, RNA, protein synthesis 	<ul style="list-style-type: none"> Controlling gene expression: Lac genes, introns, exons,
Readings	<ul style="list-style-type: none"> Chapter 5 	<ul style="list-style-type: none"> Chapters 6 and 7 	<ul style="list-style-type: none"> Chapter 8 	<ul style="list-style-type: none"> Chapter 8
Homework	<ul style="list-style-type: none"> Miller/Levine p.117, problems 1-9, p. 118, problems 1-12 Vocabulary 	<ul style="list-style-type: none"> Vocabulary Punnett square problem set 	<ul style="list-style-type: none"> Vocabulary Protein synthesis handout 	<ul style="list-style-type: none"> Vocabulary Controlling gene expression handout
Labs & Projects		<ul style="list-style-type: none"> "Climbing a Family Tree" lab 	<ul style="list-style-type: none"> "Just Like Me" lab 	<ul style="list-style-type: none"> Karyotyping Lab
AV, Internet	<ul style="list-style-type: none"> Internet mitosis video 	<ul style="list-style-type: none"> Internet meiosis video 	<ul style="list-style-type: none"> None 	
Demos		<ul style="list-style-type: none"> Human conservative replication 		
Special			<ul style="list-style-type: none"> Notebook check 	
Tests	<ul style="list-style-type: none"> Thursday Quiz 	<ul style="list-style-type: none"> Thursday Quiz 	<ul style="list-style-type: none"> Thursday quiz 	<ul style="list-style-type: none"> Thursday quiz
Points	<ul style="list-style-type: none"> Quiz: 5 	<ul style="list-style-type: none"> Quiz: 5 Lab: 20 	<ul style="list-style-type: none"> Quiz: 5 Lab: 20 Notebook check: 50 	<ul style="list-style-type: none"> Quiz: 5 Lab: 20

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	week: 13 Date:	week: 14 Date:	week: 15 Date:	week: 16 Date:
Topics	<ul style="list-style-type: none"> Analysis of Inheritance Human Genetics 	<ul style="list-style-type: none"> DNA technology 	<ul style="list-style-type: none"> Review for Final 	<ul style="list-style-type: none"> Finals
Standards	<ul style="list-style-type: none"> 2e, 2f, 2g, 3a, 3c 	<ul style="list-style-type: none"> 5c, 5d, 5e 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Lecture Notes	<ul style="list-style-type: none"> Chromosomes and Inheritance Human genetics 	<ul style="list-style-type: none"> DNA technology Cloning Ethical issues in biology 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Readings	<ul style="list-style-type: none"> Chapter 9 	<ul style="list-style-type: none"> Chapter 9 Current Event 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Homework	<ul style="list-style-type: none"> Inheritance problem set handout 	<ul style="list-style-type: none"> Report on a current event that discusses DNA technology 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Labs & Projects	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Biotechnology Lab 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
AV, Internet	<ul style="list-style-type: none"> Overhead: solving inheritance problems 	<ul style="list-style-type: none"> Video: on cloning 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Demos	<ul style="list-style-type: none"> none 	<ul style="list-style-type: none"> none 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Special	<ul style="list-style-type: none"> Grades due 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Tests	<ul style="list-style-type: none"> Thursday quiz 	<ul style="list-style-type: none"> Thursday quiz 	<ul style="list-style-type: none"> Unit Test 	<ul style="list-style-type: none"> Final
Points	<ul style="list-style-type: none"> Quiz: 5 	<ul style="list-style-type: none"> Quiz: 5 	<ul style="list-style-type: none"> Test: 50 	<ul style="list-style-type: none"> Final: 200

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	week: 1 Date:	week: 2 Date:	week: 3 Date:	week: 4 Date:
Topics	•	•	•	•
Standards	•	•	•	•
Lecture Notes	•	•	•	•
Readings	•	•	•	•
Homework	•	•	•	•
Labs & Projects	•	•	•	•
AV, Internet	•	•	•	•
Demos	•	•	•	•
Special	•	•	•	•
Tests	•	•	•	•
Points	•	•	•	•