

**Daily Lesson Plans
Chapter 7- Human
Genetics**

Academic Biology

Jan 21-24, 2020

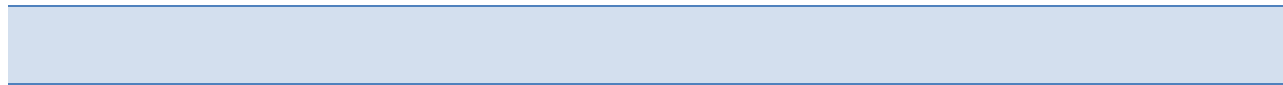
**Mrs. Linda Henry
Unit: Heredity**

Standards with Objectives	Activities	Evaluation	Enrichments
<p>1. 3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</p>	<p>Monday---No school. Acti 80 day</p> <p>Tuesday--Test on Chapter 6--genetics and meiosis</p>	<p>Chapter 6 test</p> <p>power notes for Chapter 7</p>	<p>Try the standards based assessment for this chapter on page 209 of your textbook. Many of these will be similar to your Biology Keystone Exam questions later this year!</p>
<p>2. assess student knowledge of meiosis and Mendelian genetics</p>	<p>Wednesday--go over test and pass out the power notes and study guide for human genetics.</p>	<p>study guide for chapter 7</p>	<p>Adaptations for activities and tutoring:</p>
<p>3. relate dominance and recessive inheritance to human disorders</p>	<p>Start section 1 on phenotype and chromosomes</p>		<p>1. Concept map</p>
<p>4. describe sex linked disorders</p>	<p>Thursday--go over HW and begin section 2 on complex patterns of inheritance</p>		<p>2. Word search</p>
<p>5. describe differences between codominance and incomplete dominance</p>	<p>assign section 2 of study guide for HW</p>		<p>3. Critical thinking essays</p>
<p>6. explain how polygenic traits work</p>	<p>Friday--go over HW. discuss gene linkage and chromosome maps. Assign students to complete the chromosome map handout</p>		<p>4. Flashcards</p>
			<p>5. Section reviews</p>
			<p>6. Chapter reviews</p>
			<p>7. Read chapter highlights</p>

Daily Lesson Plans Chapter 7--Human genetics	Biology Laboratory (Every other day)	Jan 21-24, 2020	Mrs. Linda Henry Unit: Intro to Genetics
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PA Academic Standards and Objectives	Activities	Evaluations	Enrichment
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| <p>1. 3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</p> <p>2. 3.1.10.A6—identify the advantages of multicellularity in organisms</p> <p>3. demonstrate how sex linked factors are passed along</p> <p>4. explain how codominant and incomplete dominance is differentiated</p> | <p>Sex linked examples</p> <p>Codominant vs. Incomplete dominance</p> | <p>Worksheet on sex linked problems</p> <p>created organisms with incomplete and codominance traits</p> | <p>Go Online! To HMDSscience.com For virtual labs, poison frogs and Biozine articles</p> <p>Adaptations for activities and tutoring:</p> <ol style="list-style-type: none"> 1. Concept map 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlights |
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Daily Lesson Plans Chapter 1-- scope and history of microbiology	Introduction to Microbiology	Jan 21-24 2020	Mrs. Linda Henry Unit: Microbes in Society
PA Academic Standards and Objectives	Activities	Evaluations	Enrichment
3.1.10.A5—relate the life processes of cellular and subcellular structures to their function 2. list the developments in the history of microbiology 3. differentiate between prokaryotes and eukaryotes 4. list the steps in Kochs postulates 5. explain the development of antimicrobial drugs to control microbe infection	Monday----no school Tuesday--collect textbooks for Human Biology. EKG activity... Wednesday--Friday--pass out Microbiology textbooks and begin discussion of the importance of microbiology. Assign page 23 HW each day.	EKG activity Chapter 1 power point notes on the history and scope of microbiology pages 23-24 textbook questions	Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills. Adaptations for tutoring and activities: 1. Concept maps 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlight

Daily Lesson Plans Chapter 16--fingerprint evidence	Introduction to Forensics (B days--every other day)	Jan 21-24, 2020	Mrs. Linda Henry Unit: Individual evidence
PA Academic Standards with Objectives	Activities	Evaluations	Enrichment
<p>1. 3,4,10.A-technology and how it impacts scientific endeavors</p> <p>2. 3.1.10.B4—explain how technologies have impacted the field of forensics.</p> <p>3. differentiate between types of minutiae</p> <p>4. describe how to classify</p>	<p>Monday--No school</p> <p>Wednesday--go over activity on basic fingerprint evidence. Students will understand how to classify their own fingerprints.</p> <p>Friday--differentiate the various types of fingerprints--notes</p>	<p>Fingerprint lab</p> <p>Challenge activity-match suspect to the crime scene</p>	<p>Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.</p> <p>Adaptations for tutoring and activities:</p> <ol style="list-style-type: none"> 1. Concept maps 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews

<p>fingerprints by the FBI Henry classification system</p> <p>5. students should be able to match fingerprints from the criminal to the crime scene</p>	<p>and handout on a “challenge”</p>	<p>7. Read chapter highlights</p>
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Daily Lesson Plans Chapter 20-Pathology Unit	Advanced Biology	Jan 21-24,2020	Mrs. Linda Henry Unit: Viruses, bacteria and immunology
PA Standards with Objectives	Activities	Evaluations	Enrichment
<p>7. 3.1.10A5—re late life processes to cellular and sub-cellular levels structures and functions</p>	<p>Monday--no school</p> <p>Tuesday--Thursday-- continue notes on viruses. Begin discussion on bacteria. Assign</p>	<p>Chapter 20 power point on viruses, bacteria and immunology</p>	<p>Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.</p> <p>Adaptations for tutoring and activities:</p>

<ol style="list-style-type: none"> 1. explain the differences between viruses and living things 2. list the diseases caused by viruses 3. list the characteristics of bacteria and how they can be controlled 4. explain the human immune system. 	<p>worksheet on bacteria.</p>	<p>worksheets that align with chapter</p>	<ol style="list-style-type: none"> 1. Concept maps 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlights
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