

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

Academic Biology

Feb 11-15, 2019

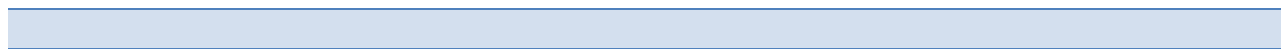
**Mrs. Linda Henry
Unit: Heredity**

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-- -collect handout and pass out page 207 for review of the Chapter. Students will READ and complete the questions</p>	<p>page 207 chapter review</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. relate dominant disorders to recessive genetic disorders</p>	<p>Tuesday--go over page 209 and then pass out the review for the test. Test Wednesday</p>	<p>review for the test</p>	<p>Adaptations for activities and tutoring:</p>
<p>3. describe patterns of sexlinked disorders</p>	<p>Wednesday--Chapter 7 Test on Human genetics and complex inheritance patterns</p>	<p>Chapter 7 Exam</p>	<p>1. Concept map 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlights</p>
<p>4. differentiate between codominant and incomplete dominance</p>	<p>Thursday--go over tests and then pass out power notes and study guide for Chapter 8. Begin section 1 on the history of discovering DNA, Assign study guide for this section</p>	<p>power notes and study guide for Chapter 8 DNA and protein synthesis</p>	
<p>5. describe the characteristics of polygenic traits</p>			
<p>6. describe how gene linkage was discovered</p>			
<p>7. create chromosome maps based on crossing over frequencies</p>			
<p>8. examine genetic inheritance patterns in humans</p>	<p>Friday--go over HW continue notes on DNA structure. Pass</p>		

9. describe how pedigrees are used
10. identify the Human Genome project
- out the packet on DNA

Daily Lesson Plans Chapter 7--Human Genetics	Biology Laboratory (Every other day)	Feb 11--15, 2019	Mrs. Linda Henry Unit: Heredity
PA Academic Standards and Objectives	Activities	Evaluations	Enrichment
<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>Study island review</p> <p>How well do punnett squares predict actual results lab?</p>	<p>Study island review for the 1st semester</p> <p>Big Toe lab on punnett squares</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

<p>3. create a karyotype using simplified chromosomes</p> <p>4. list the stages of meiosis</p>	<p>4. Flashcards</p> <p>5. Section reviews</p> <p>6. Chapter reviews</p> <p>7. Read chapter highlights</p>
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Daily Lesson Plans Chapter 1--History of Microbiology	Introduction to Microbiology	Feb.11-15, 2019	Mrs. Linda Henry Unit: Background of Microbiology and the control of bacteria
PA Academic Standards and Objectives	Activities	Evaluations	Enrichment
<p>3.1.10.A5—relate the life processes of cellular and subcellular structures to their function</p> <p>2. . recognize the system of naming bacteria</p> <p>3. differentiate between the major types of microbes</p> <p>4. list the domains of microbes</p> <p>5. explain the importance of contributions of microscopes to microbiology</p>	<p>Monday--Tuesday---fixing a smear, staining and viewing cultured bacteria. View simple stained microbes</p> <p>Wednesday--virtual lab on bacterial transformation</p> <p>Thursday--Friday--common bacterial types internet web -quest.</p>	<p>Staining and fixing cultured bacteria lab</p> <p>Bacterial transformation lab</p> <p>Web quest on common bacterial types</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 7. Read chapter highlight

6. list the steps in Koch's postulates

Daily Lesson Plans Chapter 11- DNA profiling	Introduction to Forensics (B days--every other day)	Feb. 11-15, 2019	Mrs. Linda Henry Unit: Individual evidence
PA Academic Standards with Objectives	Activities	Evaluations	Enrichment
1. 3,4,10.A-technology and how it impacts scientific endeavors	Tuesday and Thursday--continue notes and then pass out the case studies utilizing STR	Chapter 11 notes on DNA and profiling	Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.
2. 3.1.10.B4—explain how technologies	analysis. Students will complete the initial lab and then		Adaptations for tutoring and activities:

have impacted the field of forensics.

apply to two crime sciences

HHMI laboratory exercise on STR--2 crime scene case studies.

1. Concept maps
2. Word search
3. Critical thinking essays
4. Flashcards
5. Section reviews
6. Chapter reviews
7. Read chapter highlights

3. list the three main parts of the DNA molecule and explain how individualizes evidence at crime scenes

4. describe the early process of electrophoresis of DNA

5. differentiate between RFLP and STR

6. explain PCR and how it has helped forensic scientists to analyze small amounts of DNA

7.

Daily Lesson Plans Chapter 1--	Advanced Biology	May 14--18, 2018	Mrs. Linda Henry Unit:
PA Standards with Objectives	Activities	Evaluations	Enrichment
			<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 7. Read chapter highlights