Daily Lesson Plans Chapter 7--Human Genetics	Academic Biology	Feb 11-15, 2019	Mrs. Linda Henry Unit: Heredity
Standards with Objectives	**Activities**	**Evaluation**	**Enrichments**
1. **3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions** 2. relate dominant disorders to recessive genetic disorders 3. describe patterns of sexlinked disorders 4. differentiate between codominant and incomplete dominance 5. describe the characteristics of polygenic traits 6. describe how gene linkage was discovered 7. create chromosome maps based on crossing over frequencies 8. examine genetic inheritance patterns in humans	Monday-- -collect handout and pass out page 207 for review of the Chapter. Students will READ and complete the questions Tuesday--go over page 209 and then pass out the review for the test. Test Wednesday Wednesday--Chapter 7 Test on Human genetics and complex inheritance patterns 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 Friday--go over HW continue notes on DNA structure. Pass	page 207 chapter review review for the test Chapter 7 Exam power notes and study guide for Chapter 8 DNA and protein synthesis	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! Adaptations for activities and tutoring: 1. Concept map 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlights

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**
1. **3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions** 2. **3.1.10.A6—identify the advantages of multicellularity in organisms**	Study island review How well do punnett squares predict actual results lab?	Study island review for the 1st semester Big Toe lab on punnett squares	Go Online! To HMDScience.com For virtual labs, poison frogs and Biozine articles Adaptations for activities and tutoring: 1. Concept map 2. Word search 3. Critical thinking essays

3. **create a karyotype using simplified chromosomes** 4. **list the stages of meiosis**			4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlights

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

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** 2. **3.1.10.B4—explain how technologies**	Tuesday and Thursday--continue notes and then pass out the case studies utilizing STR analysis. Students will complete the initial lab and then	Chapter 11 notes on DNA and profiling	Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills. Adaptations for tutoring and activities:

have impacted the field of forensics. 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.	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

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