Daily Lesson Plans Chapter 8--DNA to proteins	Academic Biology	Feb 25-Mar 1	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 the history and discovery of DNA to the early scientists 3. list the parts of the four nucleotides that make up DNA 4. explain the double helix and how it is arranged 5. describe DNA replication in the S phase of the cell cycle 6. list and describe the part of RNA 7. differentiate between DNA and RNA 8. list and describe the three types of RNA 9. list and describe differences between transcription and translation	Monday--go over packet and continue notes on DNA replication. Assign section 3 of the study guide packet Tuesday--go over HW, Notes on section 4 on transcription. Assign section 4 of study guide for HW Wednesday--go over HW and continue notes on section 5 on translation. Assign section 5 of study guide for HW Thursday--Friday--Genetic Science learning lesson on DNA, RNA and protein synthesis. Students will use their chromebooks to view, identify and assemble nucleic acids and proteins.	power notes and study guide for Chapter 8 DNA and protein synthesis Genetic Science learning lesson on 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

Daily Lesson Plans Chapter 8--DNA to proteins	Biology Laboratory (Every other day)	Feb 25-Mar 1, 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** 3. **analyze nuclear DNA and Mitochondrial DNA for crime scenes**	Recovering the Romanovs using DNA analysis students will access www.dnai.org to view the information about the Romanovs and how their bodies were identified	Project: Recovering the Romanovs	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 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlights

Daily Lesson Plans Chapter 1--History of Microbiology	**Introduction to** Microbiology	**Feb.25-Mar 1, 2019**	**Mrs. Linda Henry Unit: Background of Microbiology and the control of bacteria**
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. . 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 6. list the steps in Koch's postulates	Monday---go over packet and review for test Tuesday--Test on Chapter 1 and then students will begin reading Chapter 3 on stains and microscopes Wednesday--Friday--go over test and begin Chapter 3 on types of microscopes and viewing microbes	review for test Chapter 1 test Notes on Ch. 3	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 11- DNA profiling	**Introduction to Forensics (B days--every other day)**	**Feb 25-Mar 1, 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 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**	Monday--collect "Innocence project" with STR evidence. Review for test Wednesday--Mr. Zach Gaskin will be in to discuss forensics and his use of DNA profiling Friday--Test on DNA	Speaker on use of DNA profiling in forensics REview of DNA Test on Chapter 1	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

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**

			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