

**Daily Lesson Plans
Chapter 8--DNA to
proteins**

Academic Biology

Mar 4-8, 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

Monday--Tuesday--finish power notes on control of genes and mutations. Assign study guide for HW

Wednesday--page 243 from online textbook for seat work in preparation for test

Thursday--review for Test

Friday--Test on Chapter 6 DNA and protein synthesis

power notes and study guide for Chapter 8 DNA and protein synthesis

page 243 from textbook--the chapter review

review for test

Chapter 8 Test on DNA / RNA 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

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

Daily Lesson Plans Chapter 8--DNA to proteins	Biology Laboratory (Every other day)	Mar 4-8, 2019	Mrs. Linda Henry Unit: Heredity
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PA Academic Standards and Objectives	Activities	Evaluations	Enrichment
<ol style="list-style-type: none"> 1. 3.1.10A5— relate life processes to cellular and sub-cellular levels structures and functions 2. 3.1.10.A6—ide ntify the advantages of multicellularit y in organisms 3. analyze nuclear DNA and Mitochondrial DNA for crime scenes 	<p>Genetics Science Learning center activity--Heredity to proteins.....workshee t goes through steps</p> <p>SAS packet #4 on Mitosis and Meiosis</p>	<p>Internet lesson on going from DNA to a trait.</p> <p>Keystone review packet #4</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

Daily Lesson Plans Chapter 3-Microscopes and stains	Introduction to Microbiology	Mar 4-8, 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. . list the steps in the brightfield microscope focus</p> <p>3. differentiate between resolution and refracting index</p> <p>4. explain the steps in making a smear</p> <p>5. list the steps in a simple stain</p> <p>6. list the steps in the Gram stain</p>	<p>Monday---Thurs day--continue notes for Chapter 3 on types of microscopes and viewing microbes.</p> <p>Assign page 73 questions for HW</p> <p>Friday--webque st on viewing types of infections</p>	<p>Notes on Ch. 3</p> <p>page 73 for HW</p> <p>Web quest on various microbes that cause infections</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

Daily Lesson Plans Chapter 11- Hair and Fiber evidence	Introduction to Forensics (B days--every other day)	Mar 4-8, 2019	Mrs. Linda Henry Unit:Types of class evidence
PA Academic Standards with Objectives	Activities	Evaluations	Enrichment
1. 3,4,10.A-technology and how it impacts scientific endeavors	Tuesday--go over tests and begin notes on Hair evidence. Assign Part 1 hair analysis from google classroom	Notes on Hair evidence	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 have impacted the field of forensics.	Thursday--go over the analysis worksheet.	Hair analysis from google classroom	Adaptations for tutoring and activities:
3. list the three parts of the hair shaft	Continue notes then pass out the microscope hair analysis . Students will complete for HW	microscope hair analysis	<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
4. list the types of cuticles			
5. differentiate between types of cortex structures			
6. explain the difference			

**between
medulla of
human and
animal hair**

- 7. explain how
hair grows and
the three stages
of hair growth**

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

			<p>critical thinking skills.</p> <p>Adaptations for tutoring and activities:</p> <ol style="list-style-type: none">1. Concept maps2. Word search3. Critical thinking essays4. Flashcards5. Section reviews6. Chapter reviews7. Read chapter highlights
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