

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

Academic Biology

**Jan.28-Feb 1,
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---go over HW and then continue on chromosome mapping. Pass out the handout on practicing chromosome maps.

Chromosome mapping

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!

2. relate dominant disorders to recessive genetic disorders

Tuesday--go over HW and finish chapter by looking at pedigrees. Pass out pedigree HW

pedigree practice

Adaptations for activities and tutoring:

3. describe patterns of sexlinked disorders

Wednesday--Thursday--Chromosomes and Heredity handout

Chromosomes and Heredity handout

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

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

- 9. describe how pedigrees are used
- 10. identify the Human Genome project

Daily Lesson Plans Chapter 7--Human Genetics **Biology Laboratory (Every other day)** **Jan 29-Feb 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. **create a karyotype using simplified chromosomes**
- 4. **list the stages of meiosis**

Sex linked problems

Multiple allele problems

How well do punnett squares predict actual results lab?

Genetic problems with sex linkage and multiple alleles

Big Toe lab on punnett squares

Go Online! To HMDSscience.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	Jan 28-Feb.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	Monday--Wedne nesday--finish notes and page 23 HW	power point notes on Chapter 1 page 23 #1--10 for the week	Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.
2. . recognize the system of naming bacteria	Thursday and Friday--fixing a smear, staining and viewing	Staining and fixing cultured bacteria lab	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
3. differentiate between the major types of microbes	cultured bacteria		
4. list the domains of microbes			
5. explain the importance of contributions of microscopes to microbiology			
6. list the steps in Koch's postulates			

Daily Lesson Plans Chapter 4--Fingerprints	Introduction to Forensics (B days--every other day)	Jan 28-Feb. 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	Monday----go over HW and review for test, fuming fingerprints	Review for Test	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.	Wednesday---Test on Chapter 15 Fingerprinting. Students should begin reading the chapter on DNA evidence	Test on Chapter 15	Adaptations for tutoring and activities: 1. Concept maps 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews
3. explain the uses of fingerprints and the three	Friday--go over test and begin notes on DNA. Assign the		

categories of classification	google classroom handout.	7. Read chapter highlights
4. list the three types of fingerprints		
5. name the most common and how to use the Henry classification system		

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 maps2. Word search3. Critical thinking essays4. Flashcards5. Section reviews6. Chapter reviews7. Read chapter highlights
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