

**Daily Lesson Plans  
Chapter 6--Meiosis  
and genetics**

**Academic Biology**

**Dec. 16-20, 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. assess student knowledge of mitosis and the cell cycle
3. list the different types of chromosomes in an individual
4. explain what information a karyotype can provide
5. list the differences between mitosis and meiosis
6. list the steps in meiosis
7. explain homologous chromosomes

Monday---go over HW and review meiosis with a worksheet...introduce genetics. section 3,  
  
Tuesday--Thursday go over HW and continue notes on sections 4--6. Assign study guide review sections for each topic.  
  
Friday--school program and volleyball game

power notes for Chapter 6  
  
study guide for chapter 6

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

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**Daily Lesson Plans**  
**Chapter 6--Genetics**

**Biology Laboratory**  
**(Every other day)**

**Dec. 16-20, 2019**

**Mrs. Linda Henry**  
**Unit: Intro to**  
**Biology**

**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. **students will demonstrate the steps in the mitotic cycle and explain each step**

Karyotype lab--students will formulate a karyotype for a normal individual

- a. normal male
- b. abnormal karyotype

Karyotype labs I and II

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

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**Daily Lesson Plans  
Chapter 10-Muscular  
system**

**Introduction to  
Human Biology**

**Dec. 16-20,  
2019**

**Mrs. Linda Henry  
Unit: Supportive body  
systems**

**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----pass out the packet on basic superficial muscles of the body. Begin discussion of muscle fibers	Muscular system from Chapter 10	Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.
2. assess student knowledge of the skeletal system	Tuesday-Thursday--continue notes assigning sections of covered in class	Study guide for Chapter 10	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. begin a project on autopsy analysis with a virtual site that shows the pathology of different illnesses	Friday--assembly and volleyball game		

Daily Lesson Plans Chapter 3--physical evidence	Introduction to Forensics (B days--every other day)	Dec. 16-20, 2019	Mrs. Linda Henry Unit:Crime scenes and criminal profiles
PA Academic Standards with Objectives	Activities	Evaluations	Enrichment
<ol style="list-style-type: none"> <li>1. <b>3,4,10.A-technology and how it impacts scientific endeavors</b></li> <li>2. <b>3.1.10.B4—explain how technologies have impacted the field of forensics.</b></li> <li>3. differentiate between direct and indirect evidence</li> <li>4. list problems with direct evidence</li> <li>5. separate types of evidence by categories:</li> </ol>	<p>Monday and Wednesday--show "anatomy of a lie: CSI episode on 2 crime scenes and the evidence found there....Students will complete the associated worksheet,</p> <p>Friday--assembly and volleyball</p>	<p>Chapter 3 on Evidence</p> <p>CSI episode on evidence 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"> <li>1. Concept maps</li> <li>2. Word search</li> <li>3. Critical thinking essays</li> <li>4. Flashcards</li> <li>5. Section reviews</li> <li>6. Chapter reviews</li> <li>7. Read chapter highlights</li> </ol>

ballistics, trace,  
fingerprint, etc

Daily Lesson Plans Chapter 9--Mitosis	Advanced Biology	Dec. 16-20, 2019	Mrs. Linda Henry Unit: Cell Biology
PA Standards with Objectives	Activities	Evaluations	Enrichment
<p>8. <b>3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</b></p> <ol style="list-style-type: none"> <li>1. explain the differences between interphase and mitosis</li> <li>2. differentiate between G1 and G2 and Go</li> </ol>	<p>Monday--Tuesday-study hall due to only 6 students in the class because of Keystone testing</p> <p>Wednesday--review for the test</p> <p>Thursday--Test on Chapter 9 Mitosis</p> <p>Friday--assembly and volleyball</p>	<p>Chapter 9 power point</p> <p>study guide for Chapter 9</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"> <li>1. Concept maps</li> <li>2. Word search</li> <li>3. Critical thinking essays</li> <li>4. Flashcards</li> <li>5. Section reviews</li> <li>6. Chapter reviews</li> </ol>

<p>3. describe the steps in mitosis</p> <p>4. explain the controls over the mitotic cycle</p> <p>5. explain how cancer may result</p>			<p>7. Read chapter highlights</p>
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