

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

**Academic Biology**

**Dec. 9-13, 2019**

**Mrs. Linda Henry  
Unit: Heredity**

**Standards with  
Objectives**

**Activities**

**Evaluation**

**Enrichments**

<p>1. <b>3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</b></p>	<p>Monday--review for test on Mitosis and the cell cycle</p>	<p>Review for test</p>	<p>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!</p>
<p>2. assess student knowledge of mitosis and the cell cycle</p>	<p>Tuesday--test on Chapter 5--mitosis. Students should start reading Chapter 6 on genetics</p>	<p>Chapter 5 test on cell cycle and mitosis</p>	
<p>3. list the different types of chromosomes in an individual</p>	<p>Wednesday--go over test and begin notes on types of chromosomes.</p>	<p>power notes for Chapter 6</p>	<p>Adaptations for activities and tutoring:</p> <ol style="list-style-type: none"> <li>1. Concept map</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>
<p>4. explain what information a karyotype can provide</p>	<p>Assign section 1 for HW</p>	<p>study guide for chapter 6</p>	
<p>5. list the differences between mitosis and meiosis</p>	<p>Thursday--go over HW and discuss meiosis. Students should label the phases...assign section 2 for HW</p>		
<p>6. list the steps in meiosis</p>			
<p>7. explain homologous chromosomes</p>	<p>Friday--go over HW and review meiosis with a worksheet...introduce genetics. section 3,</p>		

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Daily Lesson Plans  
Chapter 6--Genetics

Biology Laboratory  
(Every other day)

Dec. 9-13, 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**

Mitosis Flipbook Project, each student will create a flipbook with the steps of mitosis

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

Mitosis flipbook project due

Karyotype lab

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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<b>Daily Lesson Plans</b>	<b>Introduction to Human Biology</b>	<b>Dec. 9-13, 2019</b>	<b>Mrs. Linda Henry</b>
<b>Chapter 6--9 Skeletal system</b>			<b>Unit: Supportive body systems</b>
<b>PA Academic Standards and Objectives</b>	<b>Activities</b>	<b>Evaluations</b>	<b>Enrichment</b>
3.1.10.A5—relate the life processes of cellular and subcellular structures to their function	Monday----finish review for test	Skeletal review	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--Test on the Skeletal system.	Test on the skeletal system	Adaptations for tutoring and activities:
3. begin a project on autopsy analysis with a virtual site that shows the pathology of different illnesses	Wednesday--Friday--virtual autopsy lab...students will view the various organ systems and their abnormalities to determine the patient's cause of death	Virtual Autopsy project	<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 highlight</li></ol>

Daily Lesson Plans Chapter 3--physical evidence	Introduction to Forensics (B days--every other day)	Dec. 9-13, 2019	Mrs. Linda Henry Unit:Crime scenes and criminal profiles
PA Academic Standards with Objectives	Activities	Evaluations	Enrichment
1. <b>3,4,10.A-technology and how it impacts scientific endeavors</b>	Tuesday--evidence lab....	Chapter 3 on Evidence	Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.
2. <b>3.1.10.B4—explain how technologies have impacted the field of forensics.</b>	Thursday--continue notes on probable cause and probability in class evidence...	lab on types of evidence	Adaptations for tutoring and activities:
3. differentiate between direct and indirect evidence		Probability worksheet	<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>
4. list problems with direct evidence			
5. separate types of evidence by categories:			

ballistics, trace,  
fingerprint, etc

Daily Lesson Plans Chapter 9--Mitosis	Advanced Biology	Dec. 9-13, 2019	Mrs. Linda Henry Unit: Cell Biology
PA Standards with Objectives	Activities	Evaluations	Enrichment
<p>8. <b>3.1.10A5—re late 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--go over cell cycle and mitosis packet. continue notes and assign the study guide packet for HW</p>	<p>Chapter 9 power point</p> <p>Cell cycle and mitosis packet</p> <p>Chapter 9 textbook review</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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