

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

**Academic Biology**

**Jan.7-11, 2019**

**Mrs. Linda Henry  
Unit: Heredity**

**Standards with  
Objectives**

**Activities**

**Evaluation**

**Enrichments**

1.	<b>3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</b>	Monday--finish power notes section 5 on dihybrid crosses. Pass out the handout for practice	Power notes and 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!
2.	assess student knowledge of mitosis and cellular reproduction	Tuesday--go over HW and continue notes on section 6 on genetic variation. Assign study guide for HW	Monohybrid problems	
3.	list the various chromosomes in the human genome	Wednesday--page 183 from online textbook for seatwork	Chapter 6 review on page 183	Adaptations for activities and tutoring: <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>
4.	explain what a karyotype can give you	Thursday--go over chapter review. pass out the chapter review for test and review for test on Chapter 6	Review for test	
5.	explain the two phases of meiosis	Friday-- Chapter 6 Test on Meiosis and Genetics	Chapter 6 Test on Meiosis and genetics	
6.	give historical background on Mendel and his works			
7.	differentiate between genes, traits and alleles			
8.	explain probability and genetic problems			
9.	explain genetic variation and give examples			

<b>Daily Lesson Plans Chapter 6--Meiosis and genetics</b>	<b>Biology Laboratory (Every other day)</b>	<b>Jan 7-11, 2019</b>	<b>Mrs. Linda Henry Unit: Heredity</b>
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<b>PA Academic Standards and Objectives</b>	<b>Activities</b>	<b>Evaluations</b>	<b>Enrichment</b>
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<ol style="list-style-type: none"> <li><b>3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</b></li> <li><b>3.1.10.A6—identify the advantages of multicellularity in organisms</b></li> <li><b>create a karyotype using simplified chromosomes</b></li> <li><b>list the stages of meiosis</b></li> </ol>	<p>Meiosis Internet lesson</p> <p>Karyotype 2 activity</p>	<p>Karyotype 2 lab</p> <p>Meiosis Internet lesson</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"> <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>
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<b>Daily Lesson Plans Chapter 7--Muscular system</b>	<b>Introduction to Human Biology</b>	<b>Jan 7-11, 2019</b>	<b>Mrs. Linda Henry Unit: muscular system</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--Wednesday pass out Chapter 7 study guide and continue notes.	Chapter 7 power point on muscles	Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.
2. . list the two parts of the muscular system	assign sections of the study guide for HW.	Chapter 7 study guide packet	Adaptations for tutoring and activities:
4. give the functions of the muscular system	Thursday--Study guide and sarcomere coloring	Activity entitled “naming muscle movements”	1. Concept maps
5. name the basic parts of the muscle	Friday--Muscle study guide	sarcomere coloring activity	2. Word search
		Study guide on muscles	3. Critical thinking essays
			4. Flashcards
			5. Section reviews
			6. Chapter reviews
			7. Read chapter highlight

Daily Lesson Plans Chapter 4--Fingerprints	Introduction to Forensics (B days--every other day)	Jan 7-11, 2019	Mrs. Linda Henry Unit:Individual evidence
PA Academic Standards with Objectives	Activities	Evaluations	Enrichment
1. <b>3,4,10.A-technology and how it impacts scientific endeavors</b>	Monday--go over HW and discuss latent prints. Assign the google classroom on latent prints and how to assess	Chapter 15 notes	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>	Wednesday--go over latent prints and continue about ridges and	Fingerprint info on google classroom latent prints	Adaptations for tutoring and activities:
3. <b>explain the uses of fingerprints and the three categories of classification</b>	minutiae. Assign google science of ridges hand out.	Ridgeology	<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>
	Friday--go over handout and continue notes.	Fingerprint challenge	

4. **list the three types of fingerprints**      Assign the “Challenge Activity” for HW
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
			Try clinical applications on page 24-25 in your text

			<p>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>
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