

<b>Daily Lesson Plans Chapter 2--Chemistry of life</b>	<b>Academic Biology</b>	<b>Sept 30-Oct 4, 2019</b>	<b>Mrs. Linda Henry Unit: Biology</b>
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<b>Standards with Objectives</b>	<b>Activities</b>	<b>Evaluation</b>	<b>Enrichments</b>
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1. <b>3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</b>	Monday--finish fats and lipids models		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. list the characteristics of proteins, carbohydrates, lipids and nucleic acids	Tuesday--finish notes on section 5 on enzymes. Assign study guide section 5 for HW	Power notes for Chapter 2	
3. explain activation energy	Wednesday--review enzymes. with worksheet. Pass out chapter review.	Study guide for Ch. 2	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. differentiate between exothermic and endothermic reactions	Thursday--review for test	Chemistry of carbohydrates, lipids and proteins activity	
5. describe the lock and key arrangement of enzymes and how they are affected by pH, temp and ions.	Friday --test on Chapter 2--chemistry of living things	Enzyme worksheet	

<b>Daily Lesson Plans</b> <b>Chapter 2--Chemistry</b> <b>of life</b>	<b>Biology Laboratory</b> <b>(Every other day)</b>	<b>Sept. 30-Oct.4,</b> <b>2019</b>	<b>Mrs. Linda Henry</b> <b>Unit: Intro to</b> <b>Biology</b>
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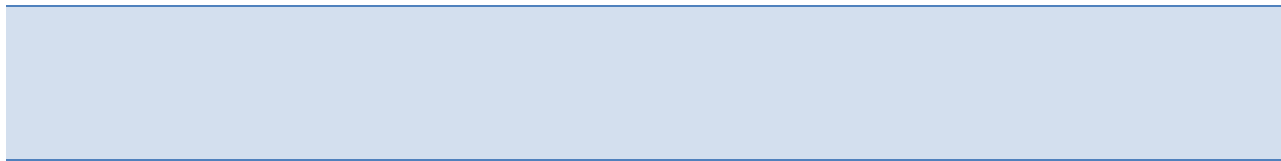
**PA Academic Standards and Objectives**

**Activities**

**Evaluations**

**Enrichment**

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| <p>1. <b>3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</b></p> <p>2. <b>3.1.10.A6—identify the advantages of multicellularity in organisms</b></p> <p>3. <b>students will analyze and classify tools used in biology</b></p> | <p>Chemistry identification of organic molecules--students will use chemical tests to identify the 4 types of organic compounds</p> <p>Enzyme lab--students will view how temperature and pH denatures enzymes so they no longer work</p> | <p>Lab on</p> <p>Chemical identification of organic compounds</p> <p>Enzyme lab</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 4--Tissues</b>	<b>Introduction to Human Biology</b>	<b>Sept 30-Oct. 4, 2019</b>	<b>Mrs. Linda Henry Unit: organization of the body</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--Review for test		Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills.
2. differentiate between prokaryotic and eukaryotic cells	Tuesday--test on Cells (chapter 3)	Review and test	Adaptations for tutoring and activities:
3. list the organelles and what their functions are	Wednesday--go over tests. Begin Chapter 4 on Tissues of the human body	Chapter 4 Notes	1. Concept maps
4. differentiate mitosis and meiosis	Thursday--Friday--continue notes and assign the appropriate sections in the study guide	Chapter 4 study guide	2. Word search
5. list the steps in protein synthesis that occurs in human body cells			3. Critical thinking essays
			4. Flashcards
			5. Section reviews
			6. Chapter reviews
			7. Read chapter highlight

Daily Lesson Plans Chapters--Serial Killer Unit	Introduction to Forensics (B days--every other day)	Sept 30-Oct 4 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> </ol>	<p>Monday and Wednesday--go over test and begin unit on serial killers--psychology and profile of various types</p> <p>Friday--turn in power point on selected criminal</p>	Serial Killer Unit	<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> </ol>

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| <ol style="list-style-type: none"><li>3. List and explain the development of forensics through time</li><li>4. explain the cooperation between the law and forensics</li><li>5. differentiate between the Frye and Daubert rulings</li><li>6. explain the responsibilities of a forensic expert</li></ol> | <ol style="list-style-type: none"><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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Daily Lesson Plans Chapter 3--Organic molecules	Advanced Biology	Sept 30-Oct. 4, 2019	Mrs. Linda Henry Unit: Review of Basic Biology
PA Standards with Objectives	Activities	Evaluations	Enrichment
<p>6. <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>list the characteristic s of Carbon and what makes it unique</li> <li>list the traits of carbohydrate s and their functions</li> <li>list the traits of proteins and their function</li> <li>explain why folding of proteins is important</li> </ol>	<p>Monday--Tuesday---- biochemistry lab exercise on enzymes and how they are denatured</p> <p>Wednesday--review for test</p> <p>Thursday-Test on Chapter 3. Students should begin reading Chapter 4</p> <p>Friday--go over tests and begin notes and HW on Chapter 4 Cells</p>	<p>Chapter 3 notes</p> <p>pages 55-57 textbook questions</p> <p>Enzyme lab</p> <p>Review and test on Chapter 3 on organic molecules</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>Concept maps</li> <li>Word search</li> <li>Critical thinking essays</li> <li>Flashcards</li> <li>Section reviews</li> <li>Chapter reviews</li> <li>Read chapter highlights</li> </ol>

5. list the traits  
of lipids and  
give their  
functions