

Daily Lesson Plans Chapter 2--Chemistry of life	Academic Biology	Sept 23-27, 2019	Mrs. Linda Henry Unit: Biology
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Standards with Objectives	Activities	Evaluation	Enrichments
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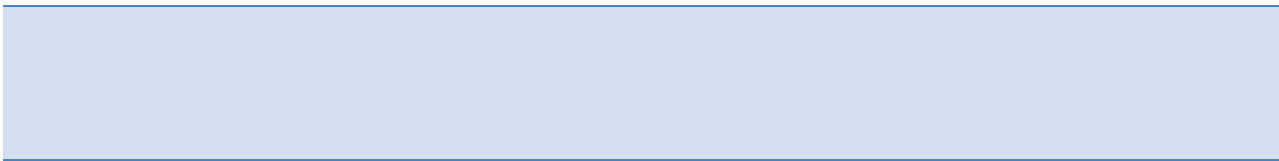
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| 1. 3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions | Monday--begin packet on elements and macromolecules as seatwork quietly in class. | Power notes for Chapter 2 | Try the standards based assessment for 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 up the packet

Wednesday--Friday--Paper models of carbohydrates, proteins and lipids activity. Students will study the chemistry of organic molecules by viewing their building blocks and answering questions | Study guide for Ch. 2

Packet on Elements and Macromolecules of living things | |
| 3. explain activation energy | | | Adaptations for activities and tutoring:
<ol style="list-style-type: none"> 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 exothermic and endothermic reactions | | 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. | | | |

Daily Lesson Plans Chapter 2--Chemistry of life	Biology Laboratory (Every other day)	Sept. 23--27, 2019	Mrs. Linda Henry Unit: Intro to Biology
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PA Academic Standards and Objectives	Activities	Evaluations	Enrichment
<p>1. 3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions</p> <p>2. 3.1.10.A6—identify the advantages of multicellularity in organisms</p> <p>3. students will analyze and classify tools used in biology</p>	<p>pH lab--measuring pH of common household products</p> <p>Chemistry identification of organic molecules--students will use chemical tests to identify the 4 types of organic compounds</p>	<p>Lab on</p> <p>Ph of common substances lab</p> <p>Chemical identification of organic compounds</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"> 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 3--Cells of the Human Body	Introduction to Human Biology	Sept 23-27, 2019	Mrs. Linda Henry Unit: orientation of the human body
PA Academic Standards and Objectives	Activities	Evaluations	Enrichment
<p>3.1.10.A5—relate the life processes of cellular and subcellular structures to their function</p> <p>2. differentiate between prokaryotic and eukaryotic cells</p> <p>3. list the organelles and what their functions are</p> <p>4. differentiate mitosis and meiosis</p> <p>5. list the steps in protein synthesis that occurs in human body cells</p>	<p>Monday--Wednes day--finish notes and then-after going over the last weeks HW, students will look at human cells under the microscope.</p> <p>Thursday--review for test</p> <p>Friday Test on Chapter 3 on Cells</p>	<p>Chapter 3--power point notes</p> <p>Chapter 3 study guide</p> <p>Cells laboratory exercise</p> <p>Review and test</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"> 1. Concept maps 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlight

Daily Lesson Plans Chapters--blood and bones	Introduction to Forensics (B days--every other day)	Sept 23-27 2019	Mrs. Linda Henry Unit:Types of blood spatter and bone to id victims
PA Academic Standards with Objectives	Activities	Evaluations	Enrichment
<ol style="list-style-type: none"> 1. 3,4,10.A-technology and how it impacts scientific endeavors 2. 3.1.10.B4—explain how technologies have impacted the field of forensics. 	<p>Tuesday and Thursday--go over test and begin unit on serial killers--psychology and profile of various types</p>	<p>Serial Killer Unit</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"> 1. Concept maps 2. Word search 3. Critical thinking essays

3. List and explain the development of forensics through time

4. explain the cooperation between the law and forensics

5. differentiate between the Frye and Daubert rulings

6. explain the responsibilities of a forensic expert

4. Flashcards

5. Section reviews

6. Chapter reviews

7. Read chapter highlights

Daily Lesson Plans Chapter 3--Organic molecules	Advanced Biology	Sept 23-27, 2019	Mrs. Linda Henry Unit: Review of Basic Biology
PA Standards with Objectives	Activities	Evaluations	Enrichment
<p>6. 3.1.10A5—re late life processes to cellular and sub-cellular levels structures and functions</p> <ol style="list-style-type: none"> 1. list the characteristic s of Carbon and what makes it unique 2. list the traits of carbohydrate s and their functions 3. list the traits of proteins and their function 4. explain why folding of proteins is important 	<p>Monday--study guide packet on organic molecules and finish notes for Chapter 3</p> <p>Wednesday--Friday- -biochemistry lab exercise. Students will utilize tests to see if the 3 organic molecules are present in common household foodstuffs.</p>	<p>Chapter 3 notes</p> <p>pages 55-57 textbook questions</p> <p>Organic molecules packet</p> <p>Biochemistry lab</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"> 1. Concept maps 2. Word search 3. Critical thinking essays 4. Flashcards 5. Section reviews 6. Chapter reviews 7. Read chapter highlights

5. list the traits
of lipids and
give their
functions