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| Daily Lesson Plans Chapter 8--DNA and protein synthesis | Academic Biology | Feb 10-14, 2020 | Mrs. Linda Henry Unit: Heredity |
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| Standards with Objectives | Activities | Evaluation | Enrichments |
|---|---|---------------------------------------|--|
| 1. 3.1.10A5—relate life processes to cellular and sub-cellular levels structures and functions | Monday--Review for Test Tuesday--Test on Chapter 7 | Chapter 7 Test | 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 meiosis and Mendelian genetics | Wednesday--go over test and begin pre-test on DNA and RNA, pass out power notes and study guide | Chapter 8 power notes and study guide | Adaptations for activities and tutoring: |
| 3. relate dominance and recessive inheritance to human disorders | Thursday--Friday--begin sections 1 and 2 on DNA and RNA | Nucleic acid packet | 1. Concept map |
| 4. describe sex linked disorders | | | 2. Word search |
| 5. describe differences between codominance and incomplete dominance | | | 3. Critical thinking essays |
| 6. explain how polygenic traits work | | | 4. Flashcards |
| | | | 5. Section reviews |
| | | | 6. Chapter reviews |
| | | | 7. Read chapter highlights |

**Daily Lesson Plans
Chapter 7--Human
genetics**

**Biology Laboratory
(Every other day)**

Feb. 10-14, 2020

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

**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—ide
ntify the
advantages of
multicellularit
y in organisms**
3. **demonstrate
how sex linked
factors are
passed along**
4. **explain how co
dominant and
incomplete
dominance is
differentiated**

How to extract DNA
from a nucleated cell
activity

DNA from the
beginning activity

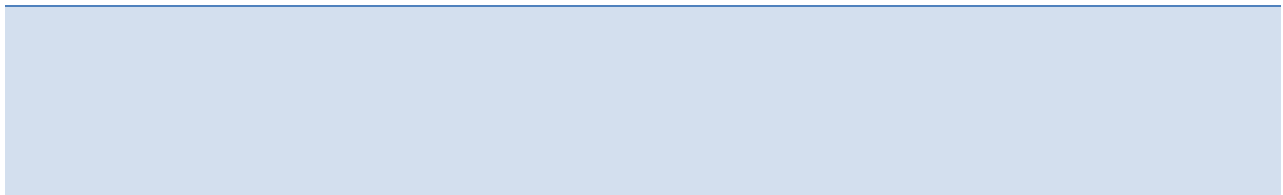
DNA computer
interactive

learn Genetics
webquest

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



| Daily Lesson Plans Chapter 1-- scope and history of microbiology | Introduction to Microbiology | Feb 10-14, 2020 | Mrs. Linda Henry Unit: Microbes in Society |
|--|--|--|---|
| 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. list the developments in the history of microbiology</p> <p>3. differentiate between prokaryotes and eukaryotes</p> <p>4. list the steps in Kochs postulates</p> <p>5. explain the development of antimicrobial drugs to control microbe infection</p> | <p>Monday --Tuesday--bacteria webquest on various common bacteria</p> <p>Wednesday--review for test</p> <p>Thursday--test on Chapter 1. Student should start reading Chapter 3 on microscopes and stains</p> <p>Friday--go over test and begin Chapter 3 notes</p> | <p>Web quest on common bacteria</p> <p>Review for test</p> <p>Chapter 1 Exam</p> <p>Chapter 3 notes and page 74 in textbook for HW</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 Chapter 16--fingerprint evidence | Introduction to Forensics (B days--every other day) | Feb. 10-14, 2020 | Mrs. Linda Henry Unit: Individual evidence |
|--|--|------------------------------------|--|
| PA Academic Standards with Objectives | Activities | Evaluations | Enrichment |
| 1. 3,4,10.A-technology and how it impacts scientific endeavors | Tuesday--review for test on fingerprints | review for test | Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills. |
| 2. 3.1.10.B4—explain how technologies have impacted the field of forensics. | Thursday--Test on fingerprints | Chapter 16 test on fingerprints | 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 highlights |
| 3. differentiate between types of minutiae | | | |
| 4. describe how to classify fingerprints by the FBI Henry classification system | | | |

5. students should be able to match fingerprints from the criminal to the crime scene

| Daily Lesson Plans Chapter 20-Pathology Unit PA Standards with Objectives | Advanced Biology Activities | Feb. 10-14,2020 Evaluations | Mrs. Linda Henry Unit: Viruses, bacteria and immunology Enrichment |
|---|---|------------------------------------|--|
| 7. 3.1.10A5—re late life processes to cellular and sub-cellular levels structures and functions 1. explain the differences between viruses and living things | Monday and Tuesday--majority of students out for special olympics Wednesday--Friday--presentations on their selected disease | Chapter presentations | Try clinical applications on page 24-25 in your text for practice in higher critical thinking skills. Adaptations for tutoring and activities: <ol style="list-style-type: none"> 1. Concept maps 2. Word search 3. Critical thinking essays |

| | | | |
|---|--|--|--|
| <ol style="list-style-type: none">2. list the diseases caused by viruses3. list the characteristics of bacteria and how they can be controlled4. explain the human immune system. | | | <ol style="list-style-type: none">4. Flashcards5. Section reviews6. Chapter reviews7. Read chapter highlights |
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