CC Recording from 1/27/14

Mrs. Ulry’s Guided Notes Template (10 pts)

“Agenda for Today”

Topic #1:

Strategies for \_\_\_\_\_Type Answer HERE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Topic #2:

\_\_\_\_\_Type Answer HERE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

“Achieving Success”

Steady pace needed for \_\_\_\_\_Type Answer HERE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 “My Expectation”

\_\_\_\_\_Type Answer HERE\_\_\_hours per week; 60-90 minutes for each daily assignment

“Weekly Breakdown”

\_\_\_\_\_Type Answer HERE\_\_\_\_: in CC; required for students with sem1 grade less than 805 (B-)

\_\_\_\_\_Type Answer HERE\_\_\_\_: Completion of daily work

\_\_\_\_\_Type Answer HERE\_\_\_\_: Studying lesson content

“Let’s Get Started”

Before starting to work on daily assignment, download the \_\_\_\_\_Type Answer HERE\_\_\_\_ so you can use it for \_\_\_\_\_Type Answer HERE\_\_\_\_.

“Lesson Page 1” and “Lesson Design”

|  |  |
| --- | --- |
| **Green Box**Info Category:Lesson Number and NameEx. info based on 1.02\_\_\_\_\_Type Answer HERE\_\_\_\_**Brown Box**Info Category:Main IdeaEx. info based on 1.02\_\_\_\_\_Type Answer HERE\_\_\_\_**Black Box**Info Category:Information you are to learnEx. info based on 1.02\_\_\_\_\_Type Answer HERE\_\_\_\_**Orange Box (name of visual)**Info Category:Mind MapPurpose for graphic:\_\_\_\_\_Type Answer HERE\_\_\_\_ |  |

“Essential Question”

How is \_\_\_\_\_Type Answer HERE\_\_\_\_ processed by \_\_\_\_\_Type Answer HERE\_\_\_\_?

When given more specific statements about the content that you need to learn, referred to as:

\_\_\_\_\_Type Answer HERE\_\_\_\_OR \_\_\_\_\_Type Answer HERE\_\_\_\_





**Genes in DNA are transcribed into RNA, and RNA is translated into various types of proteins.**

**(Above sentence is the heading from slide p #1)**

See notes from “Lesson Page 1” and “Lesson Design” Presentation Slides above

 **The flow of information from DNA to RNA to proteins is a central principle in biology.**

**(Above sentence is the heading from slide p #3)**

Function of \_\_\_\_\_Type HERE\_\_\_\_ = genes are specific segments that \_\_\_\_\_Type HERE\_\_\_\_ directions for building \_\_\_\_\_Type HERE\_\_\_\_

Ex. \_\_\_\_\_Type HERE\_\_\_\_ store directions for building many different structures

Function of \_\_\_\_\_Type HERE\_\_\_\_ = interprets the information contained by \_\_\_\_\_Type HERE\_\_\_\_

Ex. Contractor uses \_\_\_\_\_Type HERE\_\_\_\_to guide building process

Function of Protein = carry out \_\_\_\_\_Type HERE\_\_\_\_

Ex. A completed \_\_\_\_\_Type HERE\_\_\_\_ is made up of many different structures and each has a specific job or purpose. Doors to enter / exit, roof to protect from weather and windows for air flow.

**RNA molecules are transcribed from DNA codes and translated into 3-D protein structures.**

**(Above sentence is the heading from slide p #4)**

Two Parts or Processes Involved:

1. DNA found in a cell’s \_\_\_\_\_Type HERE\_\_\_\_ is made into \_\_\_\_\_Type HERE\_\_\_\_ (transcribed)

Ex. Scribes make copies of a document by transcribing the information.

1. RNA travels from nucleus and into the cell’s \_\_\_\_\_Type HERE\_\_\_\_ to ribosomes where \_\_\_\_\_Type HERE\_\_\_\_ are built of polypeptides (translated)

Ex. ?? Translation occurs when changing from one language to another

**Many different types of proteins exist in living things.**

**(Above sentence is the heading from slide p #5)**

Proteins show great \_\_\_\_\_Type HERE\_\_\_\_ in shape and function.

Protein Types (seems to suggest different protein \_\_\_\_\_Type HERE\_\_\_\_) include:

* \_\_\_\_\_Type List HERE\_\_\_\_
* \_\_\_\_\_Type List HERE\_\_\_\_
* \_\_\_\_\_Type List HERE\_\_\_\_

Proteins have many \_\_\_\_\_Type HERE\_\_\_\_ (or jobs) including:

* \_\_\_\_\_Fill-in with appropriate phrase HERE\_\_\_\_ molecules across a cell membrane during active transport
* \_\_\_\_\_Type specific function HERE\_\_\_\_ in the form of antibodies and regulation of metabolism.
* \_\_\_\_\_Type List HERE\_\_\_\_
* \_\_\_\_\_Type List HERE\_\_\_\_

**Proteins can be enzymes, or they can be used for transport or storage.**

**(Above sentence is the heading from slide p #6)**

ATPase belongs to one class of proteins called \_\_\_\_\_Type HERE\_\_\_\_.

\_\_\_\_\_Type HERE\_\_\_\_ helps with breaking down of ATP into ADP by speeding up the \_\_\_\_\_Type HERE\_\_\_\_.

**Proteins can cause movement and can be formed into structures.**

**(Above sentence is the heading from slide p #7)**

Movement of \_\_\_\_\_Type HERE\_\_\_\_. occurs with the help of two different contractile proteins: \_\_\_\_\_ID by name HERE\_\_\_\_.

Structural proteins are used to build \_\_\_\_\_Type HERE\_\_\_\_ (of fibroin) and form hair, \_\_\_\_\_Type TWO Examples HERE\_\_\_\_ (of keratin).

**The immune system and maintenance of metabolism include the actions of many proteins.**

**(Above sentence is the heading from slide p #8)**

\_\_\_\_\_Type HERE\_\_\_\_ are specialized proteins of the immune system that protect the body by destroying \_\_\_\_\_Type HERE\_\_\_\_.

\_\_\_\_\_Type HERE\_\_\_\_. proteins affect an organism’s metabolism and this includes hormones.

Ex. \_\_\_\_\_Type HERE\_\_\_\_ influences sleep, mood and \_\_\_\_\_Type HERE\_\_\_\_..

**To summarize, parts of the DNA code are transcribed into RNA, and RNA is used to build proteins.**

**(Above sentence is the heading from slide p #9)**

Many different types of \_\_\_\_\_Type HERE\_\_\_\_ exist and they can be found inside \_\_\_\_\_Type HERE\_\_\_\_ as well as outside of the \_\_\_\_\_Type HERE\_\_\_\_.

All proteins are produced \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Type HERE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:

1. DNA is\_\_\_\_\_Type HERE \_\_\_\_\_into RNA
2. RNA is then \_\_\_\_\_Type HERE \_\_\_\_\_into proteins.

**Keywords and Pronunciations – Vocabulary List for Unit 1**

**1.02 slide p #3**

DNA: deoxyribonucleic (dee-AHK-sih-riy-boh-nyoo-KLEE-ihk) acid; this is the molecule, unique to each individual, carrying the genetic information to be found in every cell; all the information an organism needs to live and reproduce is contained in its DNA

RNA: ribonucleic (RIY-boh-nyoo-KLEE-ihk) acid; nucleic acid that uses the instructions stored in DNA to build proteins

Proteins: one of the four major classes of large organic molecules, made of amino acids

**1.02 slide p #4**

gene: a segment of DNA that directs the development of some inherited traits

**1.02 slide p #5**

transcription: the synthesis of an RNA molecule using a DNA molecule for a template

translation: the process in which proteins are produced based on instructions carried by mRNA

**1.02 slide p #6**

enzyme ( EN-ziym ): a protein that is a catalyst for chemical reactions in organisms; it increases the rate of the reaction without being used up or changed

adenosine triphosphate ( uh-DEH-nuh-seen triy-FAHS-fayt ): ATP; the molecule that delivers usable chemical energy for almost all processes and reactions that a cell must undergo to survive

**1.02 slide p #7**

fibroin ( FIY-bruh-wuhn) and keratin ( KEHR-uh-tn) – specific examples of structural proteins

**1.02 slide p #8**

serotonin ( sihr-uh-TOH-nuhn): protein that acts as a hormone involved with regulation of sleep, mood and appetite