**Unit 1: Review:**

(AKA: what you Need to Know)

**Section 1.1 - The Evidence**

1.1.1 - A Mysterious Death:

* Know the 5 steps of crime scene processing.

1.1.2 - Examining the Scene:

* Know the 4 things that every sketch should include.
* Be able to read a scale and estimate distances using a scale.
* Know what kind of information would go in a legend.

1.1.4 - The Evidence:

* Be familiar with the difference between presumptive and confirmatory tests.
* Be able to compare results of such tests to identify an unknown substance..
* Know which types of evidence can be positively used to identify a suspect.

1.1.5 - Time of Death

* Be able to use the Glastier Equation to estimate time of death when given the rectal temp of a body and the time the body was found.
* Know the difference between independent and dependent variables.
* Know what a control and a constant are and why they are necessary.

**Section 1.2 - DNA Analysis**

1.2.1 - What is DNA?

* Know what DNA is.
* Know the structure of a nucleotide
* Know the name of all 4 nitrogen bases.
* Be capable of describing and labelling the following: Nucleotide, Strand, Fragment, Base pair.
* Know which bases are purines and which ones are pyrimidines.
* Understand the base pairing rules at that A&T are found in equal amounts in DNA, as are G&C

1.2.3 - DNA Analysis

* Know what is electrophoresis used for.
* Know how restriction enzymes work, and be able to make "cuts" through strands of DNA.
* Be able to count the fragments that result.
* Know why DNA moves through a gel like it does.
* Be able to identify the positive and negative ends of a gel.
* Know where the big and small pieces of DNA move on the gel and why.

**Section 1.3 - The Autopsy**

1.3.1 - The Autopsy

* Understand the major body systems as outlined in this activity and the major functions and organs involved.
* Know the five manners of death (from autopsy website: http://science.howstuffworks.com/autopsy2.htm).
* Explain how manner of death is different from cause of death.
* Explain why an autopsy is performed even when a death is not suspicious.
* Be able to determine manner of death when given information about the scene of a death.

1.3.2 - Confidentiality

* Be familiar enough with HIPAA to be able to describe if a BASIC situation would violate patient confidentiality.
* Understand the type of information that HIPAA protects.
* Understand the specific situations in which personal information can be released.

**Unit 1 Career Journals:**

* Know the general duties and job descriptions of the following careers:
	+ 911 Operator
	+ Crime Scene Investigator
	+ Emergency Medical Technician (EMT)
	+ Blood Splatter Analyst
	+ Toxicologist
	+ Medical Examiner
	+ Forensic DNA Analyst

**APA documentation & citation**

* Know the proper format for citing references in APA format for both in text citation and bibliography.

**TEST FORMAT:**

* True and False
* Matching
* Multiple Choice
* Short answer