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| **Regents**  **Biology**  Off Site  Learning Packet  Assignment #1: \_\_\_\_\_  Assignment #2: \_\_\_\_\_  Assignment #3: \_\_\_\_\_  Assignment #4: \_\_\_\_\_  Assignment #5: \_\_\_\_\_  Crossword Puzzle:\_\_\_\_\_ | **North Salem High School**  **MISSION**: *Engage students to continuously learn, question, define and solve problems through critical and creative thinking.*  **Biology as a Science**  *(pp.13 - 18)* | |
| ***If you have any problems – please sign up for extra help after school.*** | | **Collea/Oliver**  **Room W-19** |

**Assignment #1**

**Directions**: Base your answers to each of the following questions on your **Course Information Sheet.**

**1.** What is the name of Mr. Collea’s website for this class? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** Ms. Oliver has a Google Classroom site True or False

**3.** In your *opinion*, which 2 *Helpful Suggestions* are the most important and why?

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**4.** Which 2 days does Mr. Collea have extra help? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** Which 2 days does Ms. Oliver have extra help? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** List the supplies you will need for this class.

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**7.** What will be the 4 sections of your Biology Binder.

**(1)** \_\_\_\_\_\_\_\_\_\_\_\_ **(2)** \_\_\_\_\_\_\_\_\_\_\_\_ **(3)** \_\_\_\_\_\_\_\_\_\_\_\_ **(4)** \_\_\_\_\_\_\_\_\_\_\_\_

**8.** Late homework is never accepted. True or False

**9.** Cell phones are never allowed at your desk. True or False

**10.** Exams will make up approximately what percentage of your quarter grade? \_\_\_\_\_\_\_\_\_

**11.** Homework, quizzes and labs will make up the remaining \_\_\_\_\_\_\_\_% of your grade.

**12.** According to the New York State Regents, \_\_\_\_\_\_\_\_ minutes of successful lab work is

required for you to take the Living Environment Regents Exam in June?

**13.** What is Mr. Collea’s and Ms. Oliver’s definition of being *tardy*?

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**14.** Cell phones are never to be used during class.True or False

**15.** Mr. Collea and Ms. Oliver can’t stand \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**16.** Make one *observation* of your science classroom or science teachers and then make an inference based upon that observation.

|  |  |
| --- | --- |
| **Observation** | **Inference** |
|  |  |
|  |  |

**Assignment #2**

Several of the labs that you will do this year will require you to design an experiment that will provide the answers to scientific questions. In designing an experiment, it is important to understand the importance of using a **control** or **control group**. A **control** or **control group** is an *established point of reference*. It allows you to make *comparisons* that generate valid information. In designing a *valid* experiment it is

important that only one variable is changed relative to the control. The one thing that is changed is the **independent variable**. What you measure to see if the change has any effect is the **dependent variable**.

In this assignment you will be provided with data collected from a series of experiments designed by Mr. Birdsall to maximize the reproduction rates of his earthworms. You see, Mr. Birdsall is a vermiculturalist who raises earthworms because he likes their taste; whether they are deep fried in chocolate or fresh out of the topsoil. Mr Birdsall is interested in increasing the number of egg cases his worms lay in a 24 hour period. He has identified the following variables he would like to investigate to see what can make his earthworms reproduce at their optimum rates.

• % moisture in the soil

• % sand in the soil

• the amount of food (g)

• whether the soil is covered or not

Below is a table of the current conditions on Mr. Birdsall’s worm farm with the averaged results of the # of egg cases per 24 hour period per worm. This information will represent his **control group** because you will use this information to *compare* the other results to see if there is an effect.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CONTROL GROUP** | **Moisture** | **Sand** | **Food (g)** | **Soil Covered** | **# Egg Cases** |
| **20%** | **15%** | **10** | **NO** | **54** |

Mr. Birdsall decided to design and perform an experiment to determine the effect of changing the conditions on his worm farm. The table below contains the results of his first experiment.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trial 1** | **Moisture** | **Sand** | **Food (g)** | **Soil Covered** | **# Egg Cases** |
| 25% | 10% | 15 | YES | 92 |

**1.** Look closely at the first trial and COMPARE the results to that of the control group to determine what SPECIFICALLY caused the significant increase in the number of egg cases produced.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**2.** Was Mr. Birdsall’s first experiment a good one that produced valid results? Explain

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After looking at the results of his first experiment, Mr. Birdsall realized that it was impossible to identify what *specifically* caused the *significant* increase in egg production because he changed too many things or there were **too many independent variables**. ALL good experiment must have only ONE independent variable. So the tireless worm farmer decided to perform four more experiments or trials in order to determine which variable had the greatest impact. The control group along with the results of his four additional experiment are found in the data tables below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CONTROL GROUP** | **Moisture** | **Sand** | **Food (g)** | **Soil Covered** | **# Egg Cases** |
| 20% | 15% | 10 | NO | 54 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trial 2** | **Moisture** | **Sand** | **Food (g)** | **Soil Covered** | **# Egg Cases** |
| 20% | 10% | 10 | NO | 52 |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trial 3** | **Moisture** | **Sand** | **Food (g)** | **Soil Covered** | **# Egg Cases** |
| 20% | 15% | 15 | NO | 64 |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trial 4** | **Moisture** | **Sand** | **Food (g)** | **Soil Covered** | **# Egg Cases** |
| 25% | 15% | 10 | NO | 50 |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trial 5** | **Moisture** | **Sand** | **Food (g)** | **Soil Covered** | **# Egg Cases** |
| 20% | 15% | 10 | YES | 82 |
|  |  |  |  |  |  |

Note that in each of his four additional experiment or trial only one variable at a time is changed. The one thing that is changed in an experiment is the independent variable. This makes it possible to determine the effect of that specific variable by *comparing* it to the **control group**. In other words, a scientific experiment must have a control and test only one variable at a time.

**3.** List two more characteristics of any good experiment.

**a)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** List two ways you can improve or modify any valid experiment.

**a)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** According to the results of his four additional experiments, which variable had the greatest increase in the number of egg cases produced?

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**6.** According to the results of his four additional experiments, which variable had the greatest decrease in the number of egg cases produced?

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**Assignment #3**

**Directions**: Go to Collea’s Corner to watch the below mentioned Ted-Ed video and

then answers the questions below.

***Questions No One Knows the Answers To***

- Chris Anderson

**Background Information:**

*This TED-Ed video is designed to catalyze curiosity. TED Curator Chris Anderson shares his boyhood obsession with quirky questions that seem to have no answers.*

**1.** List three questions Chris Anderson asked himself as a child.

**(1)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(2)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(3)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** List 2 questions you often ask yourself and would like to find the answers to.

*(Be prepared to share at least one of these with the class.)*

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Assignment #4**

**Directions**: Base you answers to the questions below on the Cosmos episode, “*The Clean Room*.”

**Video Questions: Cosmos - The Clean Room**

**1.** What question was Claire Patterson trying to find the answer to?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2**. According to Patterson, how old is the Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** What did Patterson discover about the levels of lead in the atmosphere?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** Is lead good or bad for the human body? \_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** Why should you be aware of who funds this or ­­­­any other scientific study for that matter?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**6.** List any other examples you can think of like the story of Tetraethyl lead, in which a large corporation (or maybe government?) influences science reporting.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Assignment #5**

**Directions**: Answers each question while watching the movie *Medicine Man*.

**1.** What is Dr. Campbell’s field of study? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** According to Dr. Campbell, what is the principle cause of death among the Indians of the tropical rain forest?

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**3.** What sport does Dr. Campbell enjoy playing? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** Where is Dr. Crane from? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** What do Dr. Campbell and Dr. Crane see when they reach the rainforest canopy?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** According to Dr. Campbell, what is science all about?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.** Who was the eager beaver doctor responsible for the swine flu epidemic that resulted in the death of thousands of rain forest Indians?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8.** What does the medicine say about the flower?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**9.** What decision does Dr. Crane make regarding the sick boy?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**10.** Do you agree or disagree with her decision? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What would you have done?

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**11.** Why do you think peak 37 finally appears?

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Was the medicine man right? \_\_\_\_\_\_\_\_\_\_

**12.** What may prevent Dr. Campbell from finding the cure for cancer in the rain forest?

**13.** List some of the many benefits tropical rain forests serve for mankind and the planet.

a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Crossword Puzzle**