Grade 10-12
Distance Learning Module 9: Week of: June 1st - June 5th

Infectious Disease - *Modified from Unit #2 - The Agent (Vaccines and Antivirals)*

Targeted Goals from Stage 1: Desired Results

Content Knowledge:
Vaccines have been developed for both viral and bacterial infections
Due to the structure and processes of a virus, they cannot be treated with antibiotics
Antivirals work against the pathogens and their processes to decrease their population in a body
Vaccines work with a person's immune system to prevent or lessen the onset of a disease.

Vocabulary: antibody, antigen, antiviral, vaccine, conjugate, ELISA assay

Skills:
Employ the techniques used in infectious disease laboratories. Analyze patient profiles and apply understanding of microbiology and medical treatments to diagnose and create a prevention plan.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Virus Treatments and Prevention - Review and take notes on the Virus Treatments and Prevention SlideShow - Return to classroom and answer the posted question	Virus Treatments and Prevention Slideshow	What is the main difference between an antiviral and a vaccine?
Tuesday: COVID-19	National Geographic Article Handwashing Video	Submit article questions

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
- Read the National Geographic Article - Watch the Handwashing Video - Answer the corresponding questions	Questions	
Wednesday: Vaccines - Review the Immunity Infographic - Respond to Question on Classroom	Infographic	Describe 3 key ideas from the infographic
Thursday: Types of Vaccines Research - Use the resources provided to research the required information about each of the five types of vaccines - Answer the questions and complete the activity sheet for each type (inactivated, weakened virus, recombinant, conjugate, or toxoid).	Type of Vaccines Research and Activity Sheet	
Friday: Types of Vaccines Research - Complete the research from Thursday		Submit activity sheet for each type of vaccine

Week criteria for success (attach student checklists or rubrics):

Response to Google Classroom Questions
Read and submit coronavirus article questions
Research types of vaccines and submit activity sheet

Supportive resources and tutorials for the week (plans for re-teaching):

The Vaccine Makers Project (link posted in google classroom)
Amoeba Sisters YouTube video (link posted in google classroom)