

**Pro-Vision Academy Charter School**  
**High School Science Distance Learning Plan**

**High School Science**  
**Distance Learning Plan**  
**Week of April 13 - 17, 2020**

**Biology Activities**  
**(Suggested: 45 minutes of off-line activities)**

TEKS B.4

**Monday**

Students are to take quiz on Bacteria and Viruses.

**Tuesday**

Complete activity on parts of the Microscope.

<https://quizizz.com/admin/quiz/5d7a3a15ab3507001a85287c?studentShare=true>

**Wednesday**

Complete activity on Punnett Squares.

<https://quizizz.com/admin/quiz/5c09da7ef09faf001a7de1bf?studentShare=true>

**Thursday**

Complete activity on Immune System

<https://quizizz.com/admin/quiz/5acb545c76f100001a296353?studentShare=true>

**Friday**

Catch up any missing assignments from last and this week.

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**Chemistry Activities**  
**(Suggested: 45 minutes of off-line activities)**

C.10 A C10E

**Monday**

Students are to take quiz over Mixtures and Solutions.

**Tuesday**

Complete activity on Boyle's Law

<https://quizizz.com/admin/quiz/5e890a28a2e328001b27a257?studentShare=true>

**Wednesday**

Complete activity on Solutions

<https://quizizz.com/admin/quiz/5e7a9b8a0c7606001b93741f?studentShare=true>

**Thursday**

Complete activity on Identifying Acids and Bases.

<https://quizizz.com/admin/quiz/5e8a5fdce40629001b484dd5?studentShare=true>

**Friday**

Review and Complete Missing or Late Assignments.

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**Anatomy & Physiology**

**(Suggested: 90 minutes of off-line activities)**

**TEK(s) P.1A, P.2B**

**Monday**

Microscopes are incredible tools for observing the tiniest of organisms. Here we will identify the types of slides that can be made and describe how to best preserve, stain, and mount specimens. Students will watch the video and select Activity 1 or Activity 2 as credit for this lesson.

Activity 1. Create a Venn diagram or bubble chart classifying the different types of specimen slides. Activity 2. Answer the brief quiz attached to the video.

<https://classroom.google.com/u/1/c/NTc4NTY2NTI0MjVa/a/NjkyNTEyMjl1Njha/details>

**Tuesday**

Why is it that our immune systems can protect us from some viruses but not others? We've eradicated smallpox by using vaccines, so why do influenza and HIV remain such dangerous health risks? In this lesson about viruses, we'll explore these questions and learn how influenza and HIV continue to evade the human immune system. Students will attend a group chat to discuss information given in the video.

<https://classroom.google.com/u/1/c/NTc4NTY2NTI0MjVa/a/NjkyNTc0OTE2MDFa/details>

**Wednesday**

Microscopes are used to visualize tiny objects and structures that cannot be seen with the naked eye. In this lesson, learn how light, fluorescence, and electron microscopes work and how they are used in scientific and medical research. Students will watch the video and select Activity 1 or Activity 2 as credit for this lesson.

Activity 1. Create a chart listing all the components and functions of the light microscope.

Activity 2. Answer the brief quiz attached to the video.

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<https://classroom.google.com/u/1/c/NTc4NTY2NTI0MjVa/a/NjkyNTEyMj1Njha/details>

**Thursday**

The process of diagnosis disease in patients involves several steps that allow a doctor or healthcare professional to collect information. In this lesson we'll walk through those steps to help you understand how a diagnosis is made. No activity assigned.

<https://classroom.google.com/u/1/c/NTc4NTY2NTI0MjVa/a/NjkyOTc5NTkxODVa/details>

**Friday**

Students select a lesson from Monday-Thursday and give a short summary. Summaries may include but not be limited to a concept map, written paragraph, Venn diagram or illustration.

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### Physics

(Suggested: 90 minutes of off-line activities) TEK:P.4B,P5.F,P.5E

#### Monday

As discussed in class an object's speed and velocity may not be the same? This lesson reviews the concepts of speed and velocity relating to objects in motion. We'll look at a specific example to help learn how to calculate both speed and velocity

<https://classroom.google.com/u/1/c/NTc4NTY2NTQ0MDRa/a/NjkwMzExOTc5MTda/details>

#### Tuesday

Have you ever wondered why flipping a light switch turns on the light? In this lesson, you'll learn about electrical circuits and what makes them work. After completing this lesson, you will be able to explain what an electric circuit is, how energy transfers in a circuit, and how circuits relate to the conservation of energy. Students will select 1 of the 2 activities listed for lesson credit.

Activity 1. Create a chart or written summary of the lesson

Activity 2. Answer the five questions attached to the video lesson

<https://classroom.google.com/u/1/c/NTc4NTY2NTQ0MDRa/a/NjkwMzExOTc4ODIa/details>

#### Wednesday

In this lesson, we'll explore the reasons that some materials conduct electrical energy with ease while others block it almost completely. We'll also talk about the property of conductivity and some everyday examples of insulators and conductors. Student activity will be to participate in group google chat. Tuesday & Wednesday lesson's will be discussed.

<https://classroom.google.com/u/1/c/NTc4NTY2NTQ0MDRa/a/NjkyNjQ5OTkwNTFa/details>

#### Thursday

Have you ever wondered how an MRI works or how cell phones are able to become more advanced? After completing this lesson, you'll be able to explain what semiconductors and superconductors are and give examples of how they are used. Students will complete the attached five question quiz for lesson credit.

<https://classroom.google.com/u/1/c/NTc4NTY2NTQ0MDRa/a/NjkyNjgyNTg1MTFa/details>

#### Friday

Select a lesson from above, and summarize the lesson using a Venn diagram, bubble-chart, written paragraph or illustration.

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