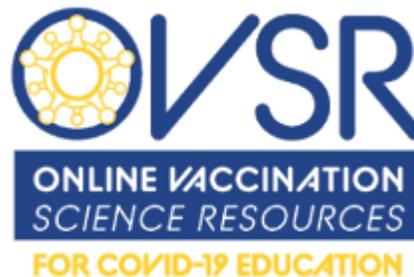


Online Vaccination Science Resources for COVID-19 Education

Student Instructions



Welcome

You are invited to make use of our “Online Vaccine Science Resources for COVID-19 Education” educational materials. Each module is assembled as a toolkit with 3-5 instructional videos, assessments, discussion questions, assignments, synthesis activities, and guides for dual infographic and virtual poster (science and general public audiences) activities. Our work focuses on the basic science for COVID-19 education and our modules and associated learning outcomes are in a table on the next page of these instructions. We hope that these materials will help you understand how science works, the SARS-CoV-2 virus, how vaccines are generated, and how we should communicate about the science of the virus and vaccines. Our ultimate goal is to reduce vaccine hesitancy and to help our communities ensure vaccine uptake in the face of the ongoing SARS-CoV-2 infection and subsequent evolution.

The modules can be found on our website <https://www.vaccine-science-education.org/>. Your professor has likely provided you with access to the modules via your learning management system. Each of the modules is centered on a YouTube video recording. Depending on your instructor, you may be using them in class or online, synchronously or asynchronously. For each of the recordings, there may be pre-assignments and post-assignments, and other activities such as discussions and assessments.

For each module follow the instructions of your instructor. Each one is slightly different and may require different activities.

We recommend that you find a quiet space in which to watch the videos and use a computer or tablet with stable internet. A transcript for each video is available and YouTube has the capacity to provide a translation in several languages as the videos progress. The videos can be viewed in succession or as standalone videos. Slides are also provided so you can print them out, download them and use them as needed.

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Module 2

Topic	Module	Learning objectives - Having completed the module students will be able to:
COVID-19 Science	2	<ol style="list-style-type: none">1. Identify the virus that causes COVID-192. Characterize the components of SARS-CoV-23. Describe the process by which SARS-CoV-2 infects a human cell4. Distinguish between different types of SARS-CoV-2 tests

This module is focused on helping you understand the biology of the SARS-CoV-2 virus.

COVID-19 Science

You will review the [slides](#) and the associated video [Module 2 Understanding the Virus](#). There are two activities.

- The first activity is a Jigsaw activity which can be found [here](#). You will do the following:
 - a. Read Media Report 1. We recommend that you read this report in advance of completing the module. The guiding questions will help you understand the concepts contained within. Your instructor may ask you to complete these in class or online and upload them to the learning management system.
 - b. In the second part, each student is assigned a different article from Media Reports 2-5. As before, guided questions are provided and you may be asked to complete these in-class or online as homework and upload them to the learning management system.
 - c. In the last part of the activity, you will be asked to work in a group. The goal will be to use a particular communication strategy to share your insights with your peers regarding some aspects of the virus. You can choose from the following options: A slide deck, an Infographic, a Video, or a Podcast.
- The second assignment is a computer activity designed for the laboratory and can be found [here](#). Detailed instructions are provided.

A bonus Video is also provided called [Module 2.2 Understanding Coronavirus Variants](#). This video was added to address the rapidly changing science of coronavirus variants and their impact on vaccination strategies.