



# Principles of Biomedical Science

Virtual Learning

**9-12 / PLTW<sup>®</sup> PBS**

May 12, 2020



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Lesson: May 12, 2020

## Objective/Learning Target:

Students will be able to: identify and describe the proper techniques when using (PPE) Personal Protective Equipment in lab settings. (*Reference: PLTW<sup>®</sup> 5.1.3 Isolating Bacteria*)



# Let's Get Started (Bell Ringer):

Watch Video:

[How to Put on Personal Protective Equipment \(PPE\)](#)

[How to Remove Personal Protective Equipment \(CDC Guide 1\)](#)



## Lesson/Activity:

PPE is used in many Biomedical Fields but according to the stats most are used in the medical field. So we are going to start by watching the following video [Donning and Removing PPE | Donning and Doffing PPE: Gown, Gloves, Mask, Respirator, Goggles](#) While you are watching this video take notes over the key points (they label these in the video) in your notebook / lab journal or seperate piece of paper.



# Answers:

## Key Points to Remember:

- Put on PPE before entering the patient's room.
- Keep hands away from face, and don't touch PPE.
- Avoid touching areas in the patient's room.
- Remove PPE at patient's doorway or outside of the room, and perform hand hygiene immediately.
- Remove the respirator outside of room AFTER closing the patient's door.
- If hands become contaminated during PPE removal, stop and perform hand hygiene, and then proceed with PPE removal.

## Order for Doffing (Removing) PPE:

- Gloves
- Goggles or Face Shield
- Gown
- Mask or Respirator
- Perform Hand Hygiene

\*If hands become soiled at any time while removing an article of PPE, stop and perform hand hygiene. Then, continue with PPE removal.

## Respirator Tips:

- 1. Always follow the manufacturer's instructions.**
- 2. Perform an annual "mask fit test" with your employer.**
- 3. After donning your mask, perform a seal check to ensure a proper seal and fit.**

## Contaminated Areas:

- Outside of gloves
- Front of the gown
- Gown's sleeves
- Front of face shield / goggles
- Front of mask or respirator

Answers continued:

## **Clean Areas:**

- Inside of gloves
- Back of the gown
- Gown's ties
- Straps of face shield / goggles
- Straps of mask or respirator



## Lesson/Activity continued:

Use the [What is PPE?](#) Web site to learn more about PPE and its importance. In the side you will learn about the 4 Basic Types of PPE. Write down notes in your Notebook / Lab journal or seperate piece of paper to explain and describe these 4 types of PPE.



## Answers:

1. **Face and Eye Protection**
2. **Respiratory Protection**
3. **Skin and Body Protection**
4. **Hearing Protection**





## Practice:

Use the following web site [WRHA Infection Prevention & Control Learning Booklet](#) to answer the Who, What, Where, When, How, and Why of PPE equipment. Answer these questions in your notebook, lab journal, or on a separate piece of paper.



# Answers:

Answers found at the following web site. ([Click here](#))



## Additional Practice:

Lets see what you remember about PPE. Try these online quizzes:

[Personal Protective Equipment \(PPE\) NCLEX Practice Quiz](#)

[Quizizz PPE](#)



# Answers:

Quizzes provide how you did and answers once complete