



# Human Body Systems

## Virtual Learning

# 9-12th PLTW<sup>®</sup> HBS

PLTW<sup>®</sup> 5.2.2 X-Ray Vision

May 12, 2020



# Human Body Systems

9-12th PLTW<sup>®</sup> HBS  
Lesson: May 12, 2020

## Objective/Learning Target:

Students will be able to distinguish between types of bone fractures on X-rays.  
(Reference: PLTW<sup>®</sup> 5.2.2 X-Ray Vision)



# Let's Get Started/Warm Up Activities:

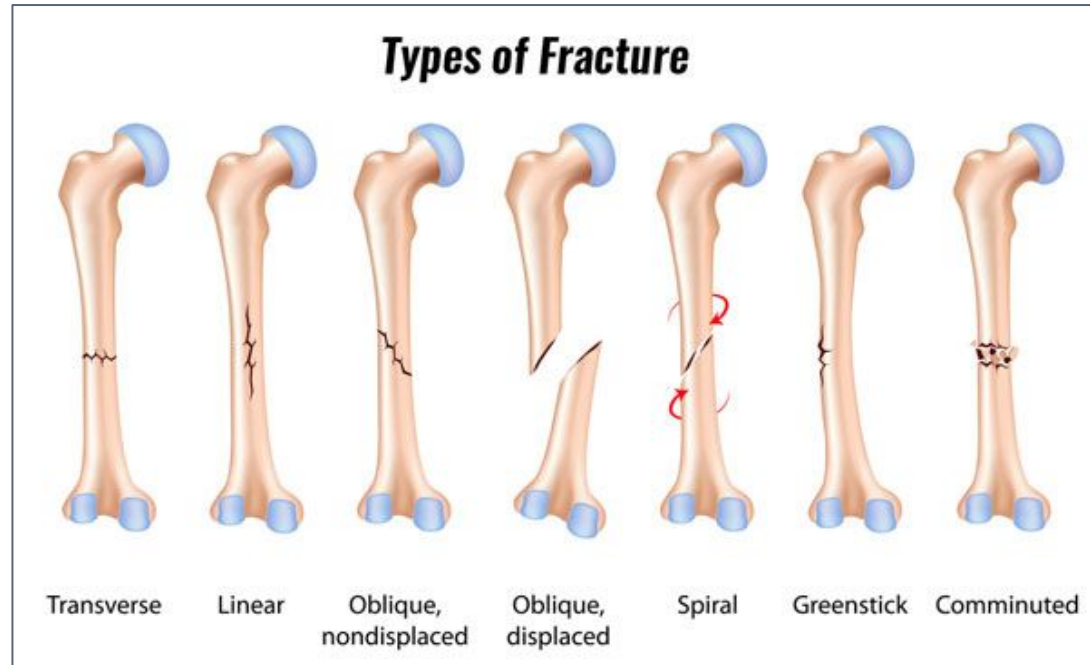
Before we start our lesson today, watch the videos below:

- [Types of Bones Anatomy: Long, Short, Flat, Irregular, Sesamoid, Sutural](#)
- [What are Bones Made Up Of?](#)

# Lesson/Activity:

**Activity #1:** On a piece of paper or in your notebook, draw the diagrams of bone fractures. Feel free to use colored pencils, crayons or markers if available.

**Activity #2:** Using websites of your own choosing, write down at least one example of how a person could cause each of the fractures from Activity #1.



# Lesson/Activity continued:

**Activity #3:** Click [HERE](#) and write down notes from Slides #4-13. Make sure to draw any diagrams or X-ray images in each of the slide.

5.2.2/5.2.3  
**Types of Bone Fractures**



# Lesson/Activity Answer(s):

## Activity #1 Answer(s):

Click [HERE](#) to view answers.

## Activity #2 Answer(s):

Click [HERE](#) to view answers.

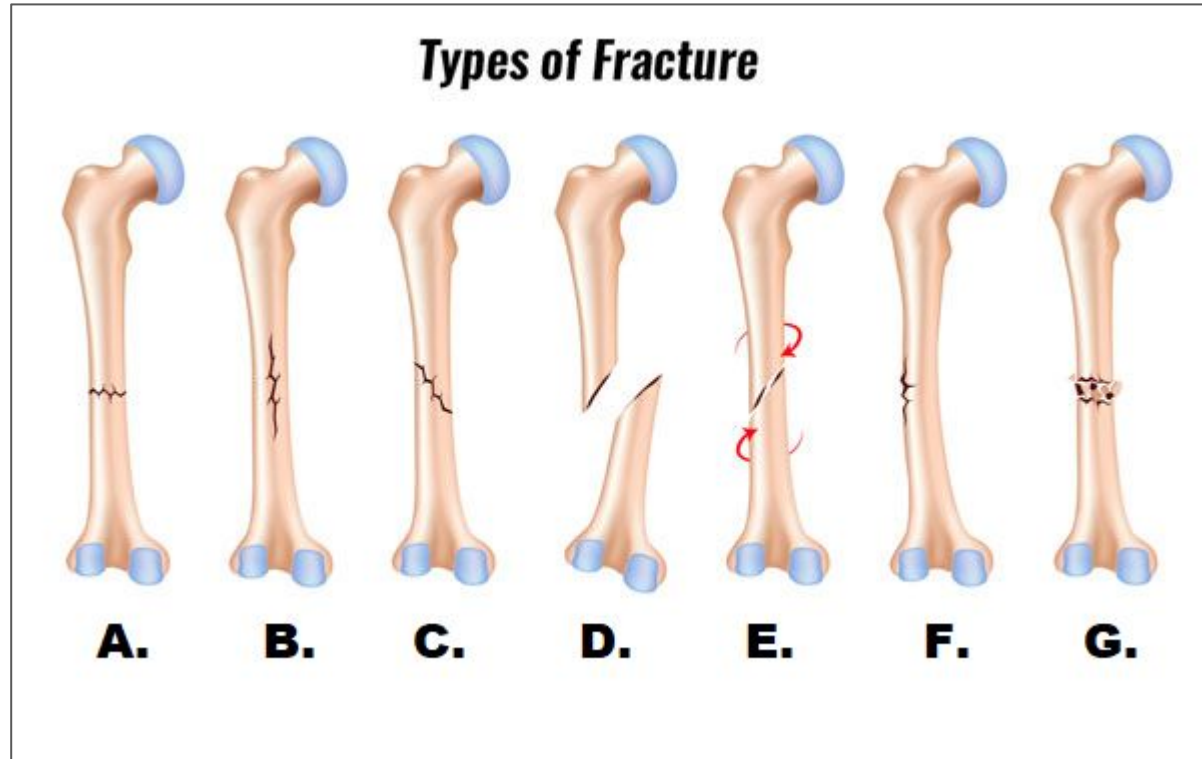
## Activity #3 Answer(s):

Click [HERE](#) to view answers on Slide #4-13.

# Practice:

**Practice #1:** On a separate sheet of paper, and **WITHOUT** using your diagram from Activity #1, try practicing by writing down all of the anatomy terms that you can remember. Practice several times so that you remember the anatomy.

**Practice #2:** Click [HERE](#). Identify the fractures in X-rays on Slides #14-18.





# Practice Answer(s):

Practice #1 Answer(s):

Click [HERE](#) to view the answer(s).

Practice #2 Answer(s): See X-rays on [Slides #14-18](#).

1. Comminuted
2. Spiral
3. Greenstick
4. Compression





# Additional Practice and/or Resources:

Learn More:

## [HBS Lesson 5.2.2 Flashcards](#)

Test your knowledge by clicking on the link above.

## [10 Facts You Must Know About Bone Fractures](#)

It's very important for you to know all about the bones that make up our amazing bodies, and what to do when you injure these bones. Take a look at these 10 important facts about bone fractures!

## [How To Treat A Fracture & Fracture Types - First Aid Training](#)

An trainer demonstrates what to look for if someone has a fracture and how to treat a fracture.