Virtual Learning

9-12th PLTW® HBS

PLTW® 5.3.2 Blood Transfusion Confusion

May 19, 2020

9-12th PLTW® HBS
Lesson: May 19, 2020

Objective/Learning Target:

Students will be able to describe antigen/antibody interactions to determine potential blood donors. *(Reference: PLTW® 5.3.2 Blood Transfusion Confusion)*

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

- **Multiple Alleles (ABO Blood Types) and Punnett Squares**
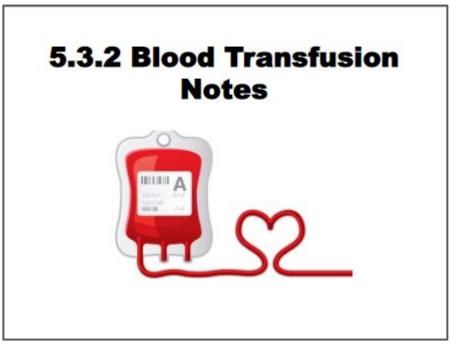
- **Blood Types and Rh Factor Explained**

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Read over the following:
5.3.2 Blood Transfusion Notes

Activity #1: On a piece of paper or in your notebook, write down notes over Slides #2-3 about the history of blood transfusions.

Activity #2: Write notes over Slides #4-9 about blood antigens and antibodies.

Activity #3: Write notes over Slides #10-12 about blood type inheritance.

5.3.2 Blood Transfusion Notes

A

Lesson/Activity Answer(s):

Activity #1 Answer(s):
Click HERE to view answers on Slides #2-3.

Activity #2 Answer(s):
Click HERE to view answers on Slides #4-9.

Activity #3 Answer(s):
Click HERE to view answers on Slides #10-12.

Practice #1: On your paper or in your notebook, draw and complete the Possible Blood Group Genotypes Punnett Square.

Possible Blood Group Genotypes

Parent Allele	A	B	O
A			
B			
O			

Practice Answer(s):

Possible Blood Group Genotypes

Parent Allele	A	B	O
A	AA	AB	AO
B	AB	BB	BO
O	AO	BO	OO

Learn More:

HBS Lesson 5.3.2 Flashcards
Test your knowledge by clicking on the link above.

Khan Academy: Blood Types
Everything you ever wanted to know about blood types! Click on the video link to learn more.

Blood Type (ABO and Rh) Made Simple!
This video covers the basics of blood typing, including descriptions of the ABO system and the Rh system!