

E.L.P. Me! Blood Disorders

Activity Suggestion

Activity 5A

Note:

This activity suggestion describes how specific content might be taught to middle school students. It does not contain fully developed lesson materials, which we hope to develop under future funding in this content area. Any feedback on how you are able to use this lesson suggestion would be greatly appreciated. Your comments can be sent to us at teachhealthk-12@uthscsa.edu.

Activity Focus:

The focus of this activity is for students to get a general understanding of different blood disorders that can occur in humans. The students will look at the mechanics of the different disorders and reflect on the impact the blood disorders have on an individual's life.

Activity Rationale:

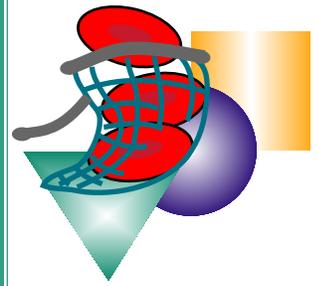
Blood is a complex combination of blood cells and plasma running through out our body. It reaches every cell to deliver nutrients and picks up the waste that our body produces. Each part of the blood has a different structure and a certain function that it carries out. This is necessary for our body to maintain homeostasis. It is important for students to understand this because a small glitch in any part of this can cause a major disruption within our bodies. When the human systems are taught, teachers generally cover how everything is supposed to work. Students need exposure to what happens when something does not work the way it should. Teaching blood disorders to students helps to reinforce the concept of structure and function of the different parts of the blood.

Looking at the impact of the blood disorder on a person's life will help students to not just look at blood disorders in a text book fashion. The students will be able to empathize and think critically not just about the mechanics of this disorder but at the human element involved.

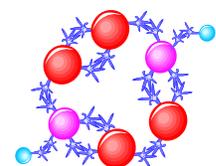
Suggested Methodology:

Students will be able to use a variety of websites to locate information on different blood disorders. Students will have to figure out:

- Who does this disorder affect?
- What happens in the body? (cause and effect)



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Cast Your Net: Adventures With Blood

- When does the blood disorder occur?
- Where in the blood does the disorder take place?
(RBC? WBC?...etc)

A chart will be completed with all of this information. Students will also include diagrams.

Once the information is collected, students can create a story about a chosen blood disorder. The story has to discuss the basics and tell a story about a person with this disorder. Students can create their story using Photostory or MovieMaker and may also work with Microsoft Paint.

Activity Resources:

General Blood disorder information:

<http://ghr.nlm.nih.gov/conditionGroup=bloodandblooddisorders>

(Genetic disorders)

<http://www.nlm.nih.gov/medlineplus/bloodandblooddisorders.html>

(Use the related topics side on the right of the screen)

<http://www.nhlbi.nih.gov/health/dci/Browse/Blood.html>

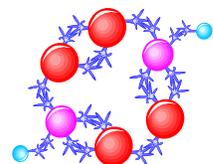
<http://www.hematologic.niddk.nih.gov/resources/organizations.htm>

(Directory of blood disorder organizations with emails, addresses, and links to website)

<http://www.techlearning.com/story/showArticle.php?articleID=196604105> (Good website on how to use and teach Photostory)



Activity Suggestion, continued



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