

Immune System WebQuest

Visit the following websites and answer the corresponding questions on a separate sheet of paper with your group. Divide up question 2 of website 3&4. ***You will need to hustle to get this done on time. **The last one (Websites 3 & 4) will take the most time, so plan accordingly.***

Website #1 Microbiology Online: <http://www.microbiologyonline.org.uk/about-microbiology/microbesand-the-human-body>

Click on Immune System:

1. List 5 types of 1st Line of Defense your body has.
2. Describe your body's 2nd Line of Defense according to the website.

Click on Antibody-Antigen Complex: If pathogens get past your 1st and 2nd line of defense, your 3rd line of defense (very specific) comes into play. Define the following using the website:

3. Antigen:

4. Antibody:

Click on Vaccination:

5. What are vaccines made of?
6. What does the vaccine stimulate the immune system to do?

Website #2 Anatomy of a splinter: <https://www.cellsalive.com/ouch1.htm>

1. What three things do white blood cells do as a nonspecific defense against foreign particles? (3 words).
2. What do the phagocytes do?

Website #3: Go to http://www.funsci.com/fun3_en/blood/blood.htm#17 and **Website #4:** <https://www.youtube.com/watch?v=zQGOcOUBi6s>

Scroll through the webpage to answer the following questions (Use "Ctrl F") and watch the video.

1. Scroll down to Leukocytes. What is a leukocyte? _____

Continue to next side...

2. Use the websites, your text book (pg 941) and the internet as well as the blank printer paper to create trading cards for the following types of leukocytes. (You should split these up in your group and then share info at the end) For each one include: **Special skills (function), where you might find them/where they come from, and a picture.** If you want, you can also add fun facts/embellished fighting skills.

Cells:

1) B Cells

2) Helper T Cells (Th Cells)

3) Cytotoxic T cells (Tc cells or Cytotoxic Lymphocytes)

4) Memory cells (B and T- need to use textbook for that one)

5) Macrophages

6) Natrual Killer (NK) Cells.

Hint: Use "Ctrl F" to search for the cell names through the web document to expedite your research.

3. When macrophages need help – who do they call?

4. If macrophages and neutrophils can't fight the infection who helps next?

When you finish make sure that all of your group's participating member's names are on the work. Make sure each member has a copy (written, or photographed to write later) of all the work.

Staple it all together and pick a responsible member to bring it back on Monday.