

Name:

Date:

Period:

Do Now# 2.11

Homework: Immunity 2.11

Aim: How can the human body protect itself from pathogens?

Vocabulary: (7)

- 1. Pathogen
- 2. Immunity

- 3. neutralize
- 4. antibodies

- 5. antigens
- 6. phagocytes

7. AIDS

What is a pathogen?

*Microorganisms* that cause disease.

↓ Examples of pathogens:

Bacteria, virus

What is immunity?

*Resistance* of an organism to disease.

Who protects the body from pathogens?

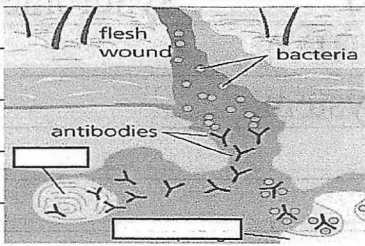
White Blood Cells



Produce antibodies

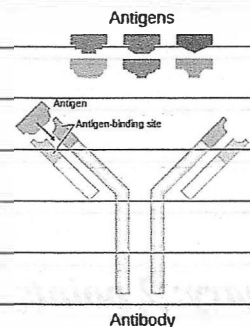
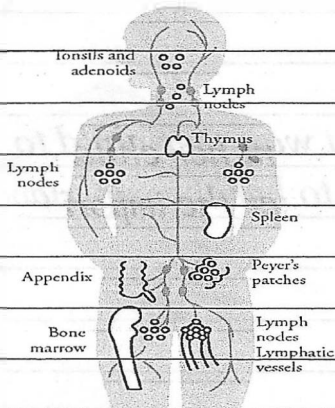


Antibodies *neutralize* the antigens.



How do we describe antibodies?

- Protein produced by white blood cells to neutralize antigens.
- Antibodies are very specific.




What are antigens?

Antigens stimulate the body to produce antibodies.

What produces the *phagocytes*?

White Blood Cells

<b>Questions/Main Ideas:</b>	<b>Notes:</b>				
What is in a vaccine?	Dead or weak pathogen.				
	<b>*Explain why vaccines don't harm you?</b>				
Why do people need vaccinations?	<ul style="list-style-type: none"> <li>To stimulate their white blood cells to produce antibodies.</li> </ul>				
	<b>*Why are antibodies important?</b>				
What is AIDS?	Acquired Immune Deficiency Syndrome				
	AIDS is caused by a virus. (HIV)				
	HIV attacks the immune system.				
What are the blood types?	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1. A</td> <td style="width: 50%;">3. AB</td> </tr> <tr> <td>2. B</td> <td>4. O</td> </tr> </table>	1. A	3. AB	2. B	4. O
1. A	3. AB				
2. B	4. O				
	<b>ACTIVITY:</b>				
	Write a letter to a mother who does not want her child to get a flu shot (vaccine). Try to explain to her the importance of vaccines.				

**Summary: 2 points**

Vaccines are made of

The role of antigens is to stimulate

Antibodies are very

Vaccines are important because