

The Immune System Notes

Name _____

Biology

Date _____ Hour _____

Bacteria and Virus Note Outline Part III - The Immune System

- Protects against _____ and _____.

1st Line of Defense

- Skin =
- Mucus (respiratory tract) =
- Sweat, Tears, Saliva
- contains _____ that digest cell walls
- Decrease ____ of skin

2nd Line of Defense

- Non specific cellular defense :
- Inflammation
- _____ released by injured cells
- Increases permeability of _____ to allow for more _____ in the area
- _____: neighborhood warning protein released by infected cells

3rd Line of Defense

- _____ Immunity
- Involves production of _____ and _____
- Steps
 - _____ engulfs pathogen and holds antigen from it on outside of its cell
 - _____ w/receptor that matches that antigen binds (it takes _____ to find the matching one among thousands)
 - Helper T cell activates
 - _____: make _____ and _____ cells
 - _____
 - Antibodies agglutinate (clump) pathogen to immobilize it

AND

Cytotoxic T cells release _____ that causes infected cells to _____

Second exposure to the same pathogen

- _____ cells produce antibodies and specific cytotoxic T cells _____
- Don't feel sick
- _____ serve as 1st exposure, so once vaccinated, you never get the disease

HIV

- Virus that infects _____
- Disables defense system

The Immune System

Amoeba Sisters

Pathogen (def):

Antigen (def):

Antibody (def):

Memory cells (def):

1st Line of Defense
(non-specific, non-cellular)

2nd Line of Defense
(non-specific, cellular)

3rd Line of Defense
(specific, cellular)



(cell type)

What does this cell type do?

(cell type)

What does it do?

(cell type)

(cell type)

What does it do?

