

Part 2 Processing Out:

Gammagauntlet I

1. Thinking about form and function, how is skin made (form) so it can keep invaders out of the body (function)?

2. How does the Respiratory system keep invaders out of the body?

3. How does the Digestive system keep invaders out of the body?

4. Once inside the body, why do the invaders seem to have an advantage early in the immune response?

5. How effective do you think the first line of defense is at keeping invaders out? Explain.

Gammagauntlet II

1. How does the *Activated Macrophage* change to help it to do its job? (Form/Function)



2. Why is it advantageous for scavenger cells like *macrophages* to be non-specific?

3. What kind of stimulus draws *macrophages* to the area of an invasion by pathogens?

4. Why do you think *macrophages* must be activated before they become aggressive phagocytes?

5. What keeps *macrophages* from attacking body cells?

Gammagauntlet III

1. What is the advantage of moving the immune battle to the lymph glands?
(**Think:** Why can't the invaders avoid the immune cells as well in the lymph glands?)

2. What is the benefit of having two actions to activate *Helper T Cells*?



3. What might happen if *Helper T Cells* were activated against the wrong thing?

4. Why do *Helper T Cells* begin dividing after activation rather than before?

5. How are *Helper T Cells* designed to help them do their job?

Gammagauntlet IV

1. Why do activated B cells begin dividing rapidly rather than unactivated ones?

Gammagauntlet V

1. How is the body able to start catching up to the staggering number of *Invaders* at this stage of the immune response?

Gammagauntlet VI

1. What is the flaw in the antibody defense system? How is it corrected?



2. Why do cancer cells and virus-infected cells present a challenge to the immune system?

3. How are abnormal cells destroyed without destroying many body cells?

Think: What are the strengths and weaknesses of simulations like you just acted out?

<i>Strengths of Simulations</i>	<i>Weaknesses of Simulations</i>
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