Biology II

Immunology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Handout

One of the best ways to learn is through application. You will be expected to prepare a newscast video using what you have learned about the non-specific immune system. This project will be worth 50 points and is due **May 4, 2012.** Be creative and have fun with it!

*BREAKING NEWS!*

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| **Role** | **Audience** | **Format** | **Topic** |
| News anchor | Immune system | Informative Newscast | EMERGENCY! Body is under attack! |

**Role:** You are news anchor at a news studio that has just received news that a pathogen has invaded the body!

**Audience:**It is your responsibility to supply the immune system with the specific details of the invasion. You are alarming the cells and organs, along with the lymphatic and circulatory systems.

**Format:** You will be communicating with the immune system through an informative news cast. You will need to record a video of yourself speaking to the immune system. To do this, you may use digit video-camera recorders provided by the school and/or home. You may edit your film (if desired) using an online video editing software like VideoLan Movie Creator (Linux, Mac OS X, Windows). The newscast must be a minimum of 3 minutes.

**Topic:** Non-specific immunity

**Student Objectives:** The following content should be included in the news cast.

* Who the invader is (visual)
* Where the invader entered
  + List the locations in which a pathogens can possibly enter the body
* How the invader entered
  + Identify the physical and chemical barriers associated with the body
  + Explain how the physical and chemical barriers defend the body against pathogen invasion
* How to destroy the invader using the inflammatory response.
  + Identify the three steps of the inflammatory response and its associated components
  + Explain how the inflammatory response defends the body against pathogen distribution

**Criteria:** Your news cast should include the following criteria

1. Introduction
   * Topic is clearly and quickly introduced
2. Fluency
   * Transitions are evident; there are no holes/gap
3. Content
   * All 9 objectives are met
4. Word Choice
   * Includes a wide range of topic-specific vocabulary words used properly
5. Grammar
   * No errors of verb tenses, clauses, or word order
6. Visual Images
   * At least 1 clear visual that enhances the presentation
7. Conclusion
   * Topic is summarized clearly, promptly, and in a logical order

**Rubric:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Category | Excellent (4) | Good (3) | Adequate (2) | Inadequate (1) |
| Introduction | Clearly and quickly established the focus of the news report in the introduction. | Established a focus by end of the introduction with sidetracks | Unclear main focus in the introduction | No introduction; no topic discussed |
| Fluency | Presentation contains no gaps/holes | Presentations lacks 1-2 gaps/holes | Presentation contains 3-4 gaps/holes | Presentation contains 5+ gaps/holes |
| Content | All 9 objectives are discussed | 7-8objectives are discussed | 5-6 objectives are discussed | 0-4 objectives are discussed |
| Word choice | Use of 10+ topic-specific vocabulary words; | Use of 7-9 topic-specific vocabulary words | Use of 4-6 topic-specific vocabulary words | Use of 0-3 topic-specific vocabulary |
| Grammar | 0-1 errors of verb tenses, clauses, and word order | 2-4 errors of verb tenses, clauses, and word order | 4-5 errors of verb tenses, clauses, and word order | 6+ errors of verb tenses, clauses, and word choice |
| Use of Visual Supports | Visuals used to help enhance newscast; visuals are clear | Visuals used to support newscast; visuals are mostly clear | Visuals are peripheral to newscast; visuals are unclear | No visuals are used throughout the newscast |
| Conclusion | Topic is summarized clearly, promptly, and in a logical order | Lacks 1 of the following:  Topic is clear, prompt, and in logical order | Lacks 2 of the following: Topic is clear, prompt, and in logical order | No conclusion or topic is not summarized clearly, promptly, or in logical order |