

IMMUNE SYSTEM/INFECTIOUS DISEASE PROJECT

Biology 2014-2015

INTRODUCTION:

For the final assessment of this unit you will need to select a disease and research it. You will then put together a visual presentation of the information and make a SHORT presentation to the class.

POSSIBLE FORMATS: For your project here are some ideas of different visuals that would be appropriate:

- Cartoon
- Comic book
- Wanted Poster (like the old west)
- Children's book
- Public service announcement
- Zine
- Pop up book
- Animation
- Poem (not a Haiku!)
- Animoto
- Brochure (like from the doctor's office)
- Video
- Song and dance
- Powerpoint or Presi
- Descriptive poster

PROJECT REQUIREMENTS:

1. Common name of the disease
2. Cause of the disease. Is this a bacteria, virus, fungi or other
3. How is the disease transmitted?
4. What are methods of prevention for this disease? (should connect to transmission)
5. What are symptoms of your disease? What system of the body is most affected?
6. How does your body fight the disease using Non-Specific defenses?
 - a. Fever
 - b. General White Blood Cells (Phagocytes)
 - c. Swelling
 - d. Other
7. Discuss how your immune system reacts to the disease. This will be mostly the same for all diseases and does not require any special research.
 - a. Include the following vocabulary in this section:
 - i. Antigen
 - ii. Antibody
 - iii. Active immunity
 - iv. Pathogen
 - v. White Blood Cell
 - vi. Memory Cells
8. Is there a vaccine for your disease?
 - a. If yes – what is it called, how effective is it, when do people get it?
 - b. If no – why not?

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NAME OF DISEASE: Common Scientific	
TYPE OF DISEASE: Bacteria, Virus, Fungi Other (what is it)	
TRANSMISSION: Methods of transmission air, water, body fluids, animals, insect, etc.	
PREVENTION: What are effective methods of prevention Hand washing, safe sex, covering mouth, clean water, clean food, animal/insects	
COMMON SYMPTOMS:	
WHAT BODY SYSTEMS IS/are EFFECTED (other than the immune system)	
WHAT NON-SPECIFIC DEFENSES DOES YOUR BODY USE MOST TO FIGHT THE DISEASE? Fever, swelling, skin, tears, saliva, general white blood cells	
VACCINE: get information about the vaccine or if there is not one, why not.	
DESCRIBE HOW YOUR IMMUNE SYSTEM REACTS TO THE DISEASE: This will be mostly the same for all diseases and does not require any special research.	