

SCIENCE 8: CHAPTER 3 RESEARCH PROJECT
:ANALOGY OF THE IMMUNE SYSTEM

NAME: _____

Date: _____ **Block:** _____

Goal: To explain how the immune system functions and show an understanding of the 3 main lines of defense: primary, secondary (innate), tertiary (acquired).

TASKS: Gather accurate scientific information in classroom and library. Show learning with a with an analogy: a 3-D model, poster or comic strip.

In partners, choose 1 of the following tasks to create an analogy of the Immune System. Model or analogy will **accurately** show the roles of all three lines of defense.

1. Fortress “student names”. Design any sort of Fortress (castle, space ship, walled city, Trojan horse) which accurately depicts are major parts of the immune system.
2. CSI: Investigate the death of Antigen (or Pathogen) X. Using a story board, comic strip or illustrated script, incorporate all major parts of the immune system into an investigative style story.
3. “Pathogen Formidable”: student partners are an unbeatable flu virus. In a comic strip or illustrated story, describe the pathogen’s journey through the body as it defeats each major part of the immune system to successfully infect the body with the Flu.
4. Build an amazing sports team (eg. Football)

Resources:

Use your notes, textbook, Science Probe 8 text photocopy, BC Science 8 chapter 3, and library books.

Websites:

<http://www.cyh.com/HealthTopics/HealthTopicDetailsKids.aspx?p=335&np=152&id=2402>

<http://www.youtube.com/watch?v=WJEc2GDEfz8>

<http://www.youtube.com/watch?v=z3M0vU3Dv8E>

Brainstorm:

Science 8 Research Project: Analogy of the Immune System

Which Line of Defence? 1st, 2nd, 3rd?	Defense Mechanism	Protective Action	Evidence in Your Analogy
	Skin		
	Mucus		
	Saliva		
	Sweat		
	Cilia		
	Tears		
	Gastric Juice		
	Ear Wax		
	neutrophils (White Blood Cells)		
	Macrophages (W.B.C.s)		
	Antibody		
	Antigen		
	Fever		

	Lymphocytes		
	B-Cells		
	Memory B-Cells		
	Helper T-Cells		
	Killer T-Cells		
	Immunity		
	Virus		
	Bacteria		
	Vaccine		

Additional Information and Ideas

Working Bibliography (MLA Style)

BOOKS

Author (s) Last Name First	Title of Book	City & Province Of Publication	Publisher	Year Published

WEBSITES

Author (s) Last Name First (if given)	Title of Webpage Used	Title of Overall Web Site	Publisher of Site (go to root address or homepage)	Publication Date

PLANNING PAGE

