

Title	Immunology Pursuit and The importance of Handwashing
Type	Informal assessment/ review for students (game) Activity (handwashing)
Description	<p>Immunology Pursuit is game loosely based upon the popular board game. There is a game board that includes colors that represent one of 5 categories: general immunology, specific response, non-specific response, definitions & acronyms and HIV. The object is to correctly answer a question in each of the five categories in order to win. A great way to review prior to a test.</p> <p>The hand washing activity involves 2 components, field research and determination of the proper procedure of hand washing, the number one means of prevention against communicable diseases. In the field, students visit a public restroom and observe the frequency of hand washing for 10 minutes. The data is compiled when students return to class. An eye-opening event to be sure. Once in the classroom the students either independently or in small groups determine the correct procedure for hand washing. Included is a brief history of hand washing linked to the prevention of disease.</p>
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Objective	<p>To provide a low-stress and fun means of review prior to a test on immunology and HIV.</p> <p>To collect field data, compile and analyze data, and look at the frequency hand washing differences in gender, location and ages.</p>
Key concepts	Innate and acquired immunity, chemical mediators, cell development, and HIV
Student Prep	<p>Review course material prior to the game (hopefully)</p> <p>10 minutes on a weekend or vacation (off of the school property)</p>
Materials	<p>2 computers per group for the game and dice</p> <p>computer and lcd projector (linked to the internet)</p>
Grade levels	Beginning to intermediate level of high school immunology (10 –12)
Teacher prep time	Very little- setting up the computers/ LCD projector and connecting to power point and the internet
Class time	<p>Game: 1 period 35-45 minutes</p> <p>Hand washing: 10 minutes</p>
National standards	<p>Content standard C (9-12) Personal and Community Health</p> <p>Content standard F (9-12) Personal and Social Perspectives</p>

State Standards	4.1 and 4.2
Sources	www.aiken.k12.sc.us/site1/Staff_Development/site/ajeap.htm www.library.musc.edu/resources/biomed/InfectCtrl/sldo23.html http://trc.ucdavis.edu/jawelsh/Sacramento_Room/EpidemicNML.jpg
References	<u>Biology 6th Ed.</u> , Neil A. Campbell and Jane B. Reece, Benjamin Cummings, San Francisco, Boston, New York 2002 <u>Immunology, Infection, and Immunology</u> , Gerald B. Pier, Jeffrey B. Lyczak, and Lee M. Wetzler, ASM Press Washington D.C. 2004 <u>Immunology 5th Ed.</u> Richard A. Goldsby, Thomas J. Kindt, Barbara A. Osborne, and Janis Kuby, W.H. Freeman and Co. New York 2003 Microvet.Arizona.edu/courses/MIC419/Tutorials/cytokines.html www.avert.org/his81_86.htm www.avert.org/his91_96.htm <u>The Immune System: An Introduction</u> (Ch. 1), William E. Paul, <u>AIDS epidemic update</u> Dec. 2003, UNAIDS/WHO 2003 <u>Where Does HIV Live?</u> Justin Stebbing, M.D., Brian Gazzard, M.D., and Daniel Douek, M.D., Ph.D. New England Journal of Medicine 2004;350:1872-80
Assessment	The speed at which the students go through the game will indicate if the questions are of sufficient difficulty.

Title of Resource	Immunology Pursuit Hand washing activities
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Phone #	508-754-5302 X-197
Field tested??	no
Photos etc. included?	yes
Proofed?	yes