

**LS-HHMI Outreach Summer Curriculum Project Classroom Resource Information Form**

<b>Title</b>	How different diseases affect various body systems		
<b>Resource Type</b>	Lesson Plan <input checked="" type="checkbox"/> Activity <input type="checkbox"/> Lab Activity <input type="checkbox"/> Homework Assignment <input type="checkbox"/> Correlations <input type="checkbox"/> Other <input checked="" type="checkbox"/> Project		
<b>Description</b>	Given a list of diseases each student will choose one disease to study. The student will research the history, cause, symptoms, treatments/cures and how the diseases affects various body systems and then create a power point presentation to be shown to the class. A model power point about swine flu has been prepared. Each student will also write a letter to an “expert” about his or her disease. At the end of the project students will play “Disease Jeopardy”.		
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<b>Author Institution(s)</b>	Hopedale Junior Senior High School		
<b>Objective</b>	The objective of this project is to expose students to a variety of different diseases that affect human body systems and introduce students to resources that can be used to learn about diseases.		
<b>Key Concepts</b>	There are many different diseases that affect the different systems of the body.		
<b>Student Prep</b>	Students will have learned about the major systems of the body respiratory, circulatory, digestive, nervous, muscular, skeletal, and reproductive. Students will understand the differences between viruses and bacteria.		
<b>Materials</b>	Reference books, Internet, textbook		
<b>Grade Level(s)</b>	Introductory Biology – grades 9/10		
<b>Teacher Prep Time</b>	2 hours-	<b>Class Time</b>	3 class periods (45 min each) in library, computer lab or at home
<b>National Standards</b>	Life Science: The cell, interdependence of organisms. Science in Personal and Social Perspectives: Personal and community health. Natural and human-induced hazards.		
<b>State Standards</b>	<b>Massachusetts State Curriculum Frameworks High School Biology</b> <b>4. Anatomy and Physiology</b> <i>Central Concepts: There is a relationship between the organization of cells into tissues and the organization of tissues into organs. The structures and functions of organs determine their relationships within body systems of an organism. Homeostasis allows the body to perform its normal functions.</i> 4.1,4.2,4.3,4.4,4.5,4.6,4.7,4.8		
<b>References</b>	<a href="http://www.clevelandclinicmeded.com/medicalpubs/diseasemanagement/">http://www.clevelandclinicmeded.com/medicalpubs/diseasemanagement/</a> <a href="http://www.webmd.com/">http://www.webmd.com/</a> <a href="http://en.wikipedia.org/wiki/Main_Page">http://en.wikipedia.org/wiki/Main_Page</a> <a href="http://www.merck.com/mmpe/index.html">http://www.merck.com/mmpe/index.html</a> <a href="http://www.mayoclinic.com/health/DiseasesIndex/diseasesIndex">http://www.mayoclinic.com/health/DiseasesIndex/diseasesIndex</a> <a href="http://www.who.int/en/">http://www.who.int/en/</a> <a href="http://science-education.nih.gov/supplements/nih1/diseases/default.htm">http://science-education.nih.gov/supplements/nih1/diseases/default.htm</a> <a href="http://www.mlanet.org/resources/userguide.html">http://www.mlanet.org/resources/userguide.html</a> <a href="http://www.mass.gov/?pageID=eohhs2subtopic&amp;L=6&amp;L0=Home&amp;L1=Government&amp;L2=Departments+and+Divisions&amp;L3=Department+of+Public+Health&amp;L4=Programs+and+Services+A+-+J&amp;L5=Communicable+Disease+Control&amp;sid=Eeohhs2">http://www.mass.gov/?pageID=eohhs2subtopic&amp;L=6&amp;L0=Home&amp;L1=Government&amp;L2=Departments+and+Divisions&amp;L3=Department+of+Public+Health&amp;L4=Programs+and+Services+A+-+J&amp;L5=Communicable+Disease+Control&amp;sid=Eeohhs2</a>		
<b>Assessment</b>	Students will be given a rubric for the project (power point presentation and disease letter)		