

Relevance
Refined



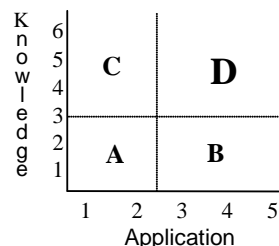
INFECTIOUS DISEASE ACTIVITY

Subject(s)

Biology

Industry
Connection

Rigor/Relevance
Framework
K=6 A= 4
Grade Level –
10th



Instructional
Focus

Subject matter(s) areas of focus (standards addressed).

California Biology Standard 10:

Organisms have a variety of mechanisms to combat disease.

10a: Students know the role of the skin in providing non-specific defenses against infection.

10b: Students know the role of antibodies in the body's response to infection.

Career planning and management.

Standard 3.2 Understand the scope of career opportunities and know the requirements for education, training and licensure.

Health Science.

10a: Students know the role of the skin in providing non-specific defenses against infection.

10b: Students know the role of antibodies in the body's response to infection.

Communications.

1.5 Use language in natural, fresh, and vivid ways to establish a specific tone.

2.3 Apply appropriate interviewing techniques: a. ask relevant questions, b. make notes of responses, c. use language that conveys maturity, sensitivity and respect.

Student
Learning

What students will do

- Students will classify infectious diseases according to the sign and symptoms presented in their cases.
 - Students will do a doctor-patient interview (simulation) to obtain the sign and symptoms.
 - Students will diagnose an illness based on clinical findings.
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- Students will work in pairs to find out the right diagnosis.
 - Students will answer a questionnaire related to the infectious disease that they diagnose.
 - Students will present their cases to the rest of the class and classmates will take notes of all the cases.
 - Students will do research on one of the different careers that are related to infectious diseases.
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Performance Task

Overview:

Students will classify infectious diseases according to the sign and symptoms presented in their cases.

This lesson will take one class period and will be during the Human Body Unit. The purpose of this activity is to have the students find out how it feels to be either a doctor or a patient. Students need to discover by interviewing the patient (another student) what kind of infectious disease this patient has.

Students will do research on the different careers related to infectious diseases.

Description:

Students will classify infectious diseases by pretending to be a doctor and a patient. Each student-patient will receive a Disease description Card with a number (there are 15 cards); in these cards the student-patient will be able to describe his/her signs and symptoms to the doctor. The doctor-student will have a Patient Record Form with a questionnaire that the student-patient needs to answer according to the case scenario. The student-doctor also will have a handout called history-symptoms checklist of the infectious diseases; then the students need to find out the diagnosis for this patient. Once they have found the infectious disease they need to tell the teacher the diagnosis and obtain another handout with the description of the disease. The students will use it to answer a questionnaire related to the infectious disease. To assess this activity you will use the questionnaire that the students answer together and the career connection research paper.

College/Career Connections

Students will do research on one of the different careers related to infectious diseases. Students will answer a questionnaire using the information that they found.

Assessment

Teacher will assess this activity by using the infectious diseases questionnaire and the career questionnaire.

Attachments/ Resources

Disease description Cards (15)
Patient Record Form
History-Symptoms Checklist (to get a printout of this handout you need to go to: <http://www.haspi.org/curriculum-library/Med-Bio-Core-Labs/0%20HASPI%20Workshop%20Resources/15%20Epidemiology%20Activity.pdf>) All of the forms can be found in this webpage using another format you can decide which one you want to use.
Infectious Diseases Questionnaire
Infectious Diseases Description
Career Questionnaire

WebPages that students can use to find careers related to Infectious Diseases :

<http://californiacolleges.edu>

<http://ciac.cusb.edu/ciac/catalogurls.html>

<http://ca-hwi.org>

www.campusexplorer.com

uscollegesearch.org/ (name of the career)

biolchem.bs.jhmi.edu/bcmb

collegeproowler.com

education-portal.com

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