



Description

These two activities give students the chance to examine the global health status and epidemics. One is an internet exploration of current global health and the second allows students to role-play as healthcare workers and patients to discover the infectious agent.

Activity 17a – Global Health Investigation

Students will have the opportunity to investigate the status of medicine, disease, and health access on a global scale. Interactive maps of life expectancy, annual income, and literacy compare the occurrence and mortality rates of several infectious diseases. Students also have the opportunity to research current investigators of global health issues. PBS videos can be purchased to supplement.

Activity 17b – Epidemiology

Students role-play as healthcare workers and/or patients. The healthcare worker performs a patient exam and records pertinent history and symptoms in order to discover the infectious agent the patient may have contracted.

Objectives

1. Identify at least three major infectious diseases that are a global health threat.
2. Interpret relationships between world maps and life expectancy, disease mortality, annual income, and literacy data.
3. Perform a patient exam and background interview.
4. Form a relationship between symptoms and patient background information to create a diagnosis.
5. Explain the importance of healthcare professionals in identifying a possible epidemic.

Time: *Dependent on Activity*

Activity 17a: 45-60 minutes

Activity 17b: 30-45 minutes

Materials *Supplies needed for 10 lab groups or 40 students*

Supply	Provided (P) or Needed (N)	Quantity	Company/Item #	Approximate Cost
17a. Global Health Investigation				
Computer/internet	N	10-40	-	-
17b. Epidemiology				
Face masks	P	40	Convenience	\$5.00
Tongue depressors (wood sticks)	P	40	Convenience	\$3.00
Gloves	P	40 pairs	Carolina/706337	\$17.95
Disease cards	P	2 sets	HASPI	Cost of copies
Thermometers	P	5	Convenience	\$5.00 each
Alcohol Swabs	P	40	Convenience	\$5.00
Paper towels	N	As needed	-	-

IMPORTANT: Check the MSDS for safety information on unfamiliar chemicals

Company Contact Information:		
<p>HASPI www.haspi.com Download free online</p>	<p>Carolina www.carolina.com 800.334.5551</p>	<p>Convenience <i>Can be found at local convenience store</i></p>

Additional Information

Activity 17a

- The activity is based upon the PBS “Rx for Survival” module online. See below for website.
- In addition to the website resources, there are several high-quality DVD’s that can be purchased from PBS or accessed through clips on the website.
- The “Global Health Atlas” currently requires Flash 6 or higher to correctly display the map.

Activity 17b

- The teacher could make it more engaging by truly simulating a clinic setting: setting up “exam room” areas, having infected students act out symptoms, quarantine areas, etc.
- The students can act as the healthcare worker and then switch roles and get a new card to act as the patient if time allows.

Resources and References

- PBS. 2011. Rx for Survival, www.pbs.org/wgbh/rxforsurvival/.
- UNT. 2008. History and Physical Lab Activity. Texas Education Association.
- Heather Peterson, HASPI Curriculum Coordinator. www.haspi.org
- Edited by Janet Hoff-Kneier, HASPI Program Manager. www.haspi.org
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Images (in order of appearance)

- https://twimg0-a.akamaihd.net/profile_images/969982425/Global_Health.JPG
- <http://find-a-mesothelioma-lawyer.com/2009/06/epidemiology/>