



7th Grade-2009

Shots Felt 'Round the World

Scenario:

Although vaccines have prevented or even eliminated many serious childhood illnesses, some parents question whether vaccines are still necessary. Although the California School Immunization Law requires that children receive a series of immunizations before entry to schools, child care centers, or family child care homes, the California State Board of Education would like to develop an educational program for parents who refuse to have their children vaccinated. The Board has asked your team of medical experts to develop a multimedia presentation that would help schools and day cares increase their knowledge of the importance of vaccinating our children along with understanding the fears parents may share about having their child vaccinated.

Possible topics to cover (these are only suggestions and are not a requirement for a superior presentation):

1. What is a vaccine and how does it work?
2. Why are vaccines important?
3. What was the first vaccine and who discovered it?
4. How has disease changed in our world since we started using vaccines?
5. How has the process changed in the creation of new vaccines?
6. How are vaccines tested before they are distributed for use?
7. What vaccines are required before children can enter school and what diseases do they prevent?
8. Are there cases in the past when vaccines were not safe?
9. Which vaccines are parents most likely to avoid giving to their child and why?
10. What can public health officials and school personnel do to encourage parents to get their children vaccinated?

Possible Sources

Newspapers, historians, medical experts, school nurses, public health agencies, teachers, videos, CD's, encyclopedias, history textbooks and Internet websites.

Email or interview experts with questions about the topic.

Internet links for additional resources are on page 2 of this scenario.

Bibliography

Be sure to have a printed bibliography to hand to the judges before you begin your presentation. You are encouraged to cite all of your sources including graphics. A simple web tool to organize your bibliography can be found at <http://citationmachine.net/>.

2009 CyberQuest 7th Grade Resources

Children's Hospital of Philadelphia

<http://www.chop.edu/service/vaccine-education-center/home.html>

Vaccine Education Center

Centers for Disease Control

<http://www.cdc.gov/vaccines/> : To continue to protect America's children and adults, we must obtain maximum immunization coverage in all populations.

<http://www.cdc.gov/vaccines/pubs/parents-guide/default.htm>

Parents Guide to Immunization.

California Department of Health

<http://www.cdph.ca.gov/programs/immunize/Pages/CaliforniaImmunizationSchoolLaw.aspx>

School Immunization Law

American Academy of Pediatrics

http://www.cispimmunize.org/pro/pdf/RefusaltoVaccinate_revised%204-11-06.pdf

Documenting Parental Refusal to Have Their Children Vaccinated

Timeline of Vaccines

http://en.wikipedia.org/wiki/Timeline_of_vaccines

Foundation for Biomedical Research

<http://www.fbresearch.org/Education/Vaccines/Whatisavaccine/tabid/575/Default.aspx>

What is a Vaccine?

<http://stanmed.stanford.edu/2009spring/article2.html>