

Unit 2: Lesson 3 – Development of Vaccines

Activity 1: Types of Vaccines – Conjugate Vaccines Worksheet

1. Watch the clip titled *Pneumococcal Vaccine* from the video, “Vaccines and Your Baby”: <https://www.youtube.com/watch?v=xecFoTYmP7Q>.
2. Fill in the blanks based on your understanding of the video clip:
 - a. A possible effect of _____ is profound deafness.
 - b. The pneumococcal vaccine is made by stripping away a _____ covering the bacteria and attaching it to a _____.
3. Using your Apple mobile device, download the Vaccines Mobile App, click on “Types of Vaccines”. If you do not have an Apple mobile device, access the Children’s Hospital of Philadelphia Vaccine Education Center website: <http://www.chop.edu/centers-programs/vaccine-education-center>.
4. Conduct additional online research as necessary to complete the following:
 - a. Name a benefit of using the outer coating of bacteria to make a vaccine.

 - b. Name one disadvantage of using the outer coating of bacteria to make a vaccine.

 - c. Describe how conjugate vaccines are made.

 - d. List a vaccine (other than pneumococcal vaccine) made using conjugates.

5. Create a presentation that summarizes your research about conjugate vaccines. Ensure that your presentation:
 - a. Explains how a conjugate vaccine is made.
 - b. Shows how a conjugate virus vaccine works.
 - c. Describes the advantages and disadvantages of conjugate vaccines.
 - d. Lists examples of conjugate vaccines.