

Unit 2: Lesson 3 – Development of Vaccines

Activity 1: Types of Vaccines –Toxoid Vaccines Worksheet

1. Watch the clip titled *DTaP Vaccine* from the video, “Vaccines and Your Baby”:
<https://www.youtube.com/watch?v=J00cRO4WDHc>.
2. Fill in the blanks based on your understanding of the video clip:
 - a. DTaP is an acronym for which diseases?
 - i. D _____
 - ii. T _____
 - iii. P _____
 - b. To make the DTaP vaccine, the bacterial _____ are purified, then treated with a chemical to make them harmless.
 - c. A _____ that has been made harmless is called a _____.
3. Using your Apple mobile device, download the Vaccines on the Go: What You Should Know 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 just part of a bacteria to make a vaccine.

 - b. Name one disadvantage of using just part of a bacteria to make a vaccine.

 - c. Describe how toxoid vaccines are made.

- d. What is the maximum age at which DTaP should be given, and what immunization against diphtheria, tetanus and pertussis can offer protection to older individuals?
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5. Create a presentation that summarizes your research about toxoid vaccines. Ensure that your presentation:
 - a. Explains how a toxoid vaccine is made.
 - b. Shows how a toxoid vaccine works.
 - c. Describes the advantages and disadvantages of toxoid vaccines.
 - d. Lists examples of toxoid vaccines.