

Unit 2: Lesson 3 – Development of Vaccines

Activity 1: Types of Vaccines – Recombinant Vaccine Worksheet

1. Watch the clip titled *Hepatitis B Vaccine* from the video, “Vaccines and Your Baby”:
<https://www.youtube.com/watch?v=xbQui8wLaMg>
2. Fill in the blanks based on your understanding of the video clip:
 - a. The number of people in the United States infected with Hepatitis B is about_____.
 - b. People infected with Hepatitis B virus may die from _____.
 - c. The Hepatitis B vaccine is made using only the _____ of the virus.
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. List two benefits of using recombinant technology to make a vaccine.

- b. Describe one disadvantage of using recombinant technology to make a vaccine.

- c. Describe how recombinant vaccines are made

- d. List two vaccines made using recombinant technology.

5. Create a presentation that summarizes your research about recombinant vaccines.

Ensure that your presentation:

- a. Explains how a recombinant vaccine is made.
- b. Shows how a recombinant vaccine works.
- c. Describes the advantages and disadvantages of recombinant vaccines.
- d. Lists examples of recombinant vaccines.