

Penicillin Timeline

By Jennifer Perez

Description:	Students will use http://www.loc.gov to research the history of penicillin to create a timeline for others to view.
Subject:	Science and Technology
Duration:	110 min
Grade Level:	8

Standards

Standards:

- IL-13.B** STANDARD: Know and apply concepts that describe the interaction between science, technology and society.
- IL-13.B.3b** > Identify important contributions to science and technology that have been made by individuals and groups from various cultures.
- IRA-5.6** ...promote the integration of language arts in all content areas
- IRA-8.1** ...provide opportunities to locate and use a variety of print, nonprint, and electronic reference sources
- NSTA-3** INQUIRY: The program prepares candidates to engage students regularly and effectively in science inquiry and facilitate understanding of the role inquiry plays in the development of scientific knowledge. Inquiry refers to questioning and formulating solvable problems; reflecting on, and constructing, knowledge from data; collaborating and exchanging information while seeking solutions; and developing concepts and relationships from empirical experience.

Resources

Resources: www.loc.gov

Details

- Objectives:**
- Students will be able to explain the importance of antibiotics in our present day lives.
 - Students will understand how the scientific process was involved in discovering penicillin.
 - Students will research and demonstrate their knowledge of an important issue related to diseases.

Activities:

Timeline

1. Have you ever had to get a prescription for antibiotics? Explain why you needed the prescription.
2. How would life be different if there were no antibiotics?
3. When do you think antibiotics were invented?

Objective: In this lesson, we will use technology to find out how antibiotics were discovered.

Directions:

1. go to <http://www.loc.gov>
2. click - **Teachers**
3. click - **getting started**
4. scroll down and click **links**
5. on the left hand side, click - **Internet Resources**
6. scroll down to Science and Technology
7. click - **Science**
8. Click - **Pieces of Science- The Franklin Institute presents 16 historic artifacts and engages**
9. Click - penicillin- (It is the last picture of the 16 pictures)
10. Journal about why you think the picture is important.
11. click- story on the left hand side.
12. Read the story, write down important dates and what happened on those dates.
13. Create a timeline about the story of Alexander Flemming and the

discovery of Penicillin.

14. Use the Rubric to help guide your work.

15. Self assess your work before you turn it in.

- What did you learn from this project?
- What did you find most interesting?
- Why did you like this project?
- What did you like least about the project?
- Why is penicillin so important to our lives?

www.loc.gov

Assessments: Students will share timelines with peers. A rubric will be used to assess the project.