

Cryptography Brains Over Bullets

Developed/Adapted By

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One sentence description of the assignment or activity

Students will learn about the role of cryptology during World War 2.

Course for which this is used

- PreAlgebra (Math 0950)
- Beginning Algebra (Math 0990)
- Intermediate Algebra (Math 1010)
- College Algebra (Math 1050)

Key topics taught in this activity

Cryptology

Prerequisites

none

Lesson Plan – Detailed Description

Students will respond to the Brains Over Bullets assignment prompts while watching the NOVA special presentation of "Decoding Nazi Secrets".

Activity Grading/Assessment

Students will be assessed based on their lesson participation and on their completion of the Brains over Bullets assignment.

Class Time Required

45-60 minutes for code making portion of the project
55-80 minutes for code breaking portion of the project

Out-of-Class Time Required

0-120 minutes completing required code making and breaking portions of the project.

Materials Required

Making and Breaking Codes assignment

Supplemental Web Resources

- <http://www.pbs.org/wgbh/nova/decoding/>
- <http://www.ciphersbyritter.com/LEARNING.HTM>
- <http://www.cs.trincoll.edu/~crypto/index.html>
- http://www.simonsingh.net/The_Black_Chamber/chamberguide.html