The stories of inventions

Author: Vanashri Nargund-Joshi and John Bragg

Year: 2017

Abstract

During the second industrial revolution (1870–1914), scientists moved away from trial-anderror methods to more systematically apply the principles of chemistry, physics, and biology (Mokyr 1998). We chose this period as the foundation of a projectbased learning (PBL) unit integrated with the ninth-grade U.S. history curriculum (Thomas 2000). This project, a collaboration of two university faculty members (the authors) and a high school social studies teacher, reflected the integrative learning promoted by the Next Generation Science Standards (NGSS Lead States 2013; see box, p. 49). The unit encouraged students to associate the second industrial revolution's many inventions (in such areas as manufacturing, transportation, and communication) with methodical investigation and professional collaboration rather than random eureka moments. The goal was to develop student understandings about the evolution of different inventions within their scientific and societal contexts.

Referanse: Nargund-Joshi, V., & Bragg, J. (2017). The stories of inventions. *The Science Teacher*, *84*(5), 44.

Tag: historie, prosjektbasert læring

Revision #2
Created 13 June 2023 08:15:23 by Admin
Updated 4 September 2023 12:06:42 by Kristin