Lesson Plan Template

Summer 2012
Instructor’s Name

Donata Nicholas: East Orange STEM Academy High School

TOPIC: Physics Special End of the Year Project History and Science

STANDARD(S) & INDICATOR(S):
5.1.12.D.1. Engage in multiple forms of discussion in order to process, make sense of, and learn from others’ ideas, observations, and experiences.

OBJECTIVE(S):
Outlined in the rubric which is a separate attachment.

MATERIALS:
Computers

BACKGROUND INFORMATION:
Science is a way of knowing yourself, your environment, your world and the universe. All people at all times have participated in the collection of what we know about the world today. In completing this project the students were to research the scientific accomplishments of different peoples in different times while also understanding what their day to day lives were like.

EDUCATION TECHNOLOGY INTEGRATION:
Students were to create a Powerpoint, a skit, or a song to present their information. All the student groups chose to complete a Powerpoint and they used google docs to work collaboratively on their projects.

CLASSROOM ACTIVITY DESCRIPTION (LABORATORY/EXERCISES/PROBLEMS) including detailed procedures:
I reserved our school media center and its computers for the students to work on their projects.

Each group of two students will select a time period from the list below:
Ancient Kemet (Egypt 5000- 3500 BC)
Dynastic Kemet (3500-1200 BC)
Olmec Period circa 1200 BC
Carthage circa 900 BC
Ancient Ghana circa 1100 BC
Late Kingdom of Egypt (700-300 BC)
End of the Roman Empire (European Dark Ages) Light Ages for Moorish Culture 400-1000 AD
Saharan Age 631 to 18th century
Age of Zimbabwe and Monomatapa 1200 to 1800 AD
Empire of Ghana, Songhai, and Mali 700-2600 AD
Inca/Andean Civilization 1453-1533
Age of European Colonial Expansion circa 1500-1800 AD
Early 18th century America
19th century America
20th century America
21st century America
The future

For your selected time period you are to research:

- What life was like for a small child, a teenager, a young woman, a young man, a parent and an elder. Be sure to include what an average day was like for the person with details about what time they would wake up, what they would eat for their meals, where they went during the day, what time they went to bed, what they would do when they were not busy, for example, play, or nap or they didn't have down time.
- What major events in history took place during their lifetime and how they shaped their lives.
- What major scientific discoveries were made during their lifetime and how these shaped their lives.
- You have to present your findings in an interesting way. A formal paper is not required. You can choose a skit, a song, a Powerpoint or a prezi whatever you like but it must be interesting!

PARAMETERS TO EVALUATE STUDENT WORK PRODUCTS:
Rubric is a separate file.

This material is based on work supported by the National Science Foundation under Grant No. 1054754. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Copyright © 2012 by the Center for Pre-College Programs, of the New Jersey Institute of Technology. All Rights Reserved.

Supporting Program: Center for Pre-College Programs, at the New Jersey Institute of Technology

Contributors
Donata Nicholas (East Orange STEM Academy High School, East Orange, NJ), Primary Author
Howard Kimmel, Levelle Burr-Alexander, John Carpinelli - Center for pre-College Programs, NJIT.