10th Grade

A look into the Kinesthetic and Mathematics of Marching Band

Maricela Bissaro, Josh Duarte, Elizabeth Loya
Over of unit plan’s scope and objectives

• Band
  ▫ Students will be able to perform standard marching techniques
  ▫ Students will be able to demonstrate playing and marching on any instrument

• Physical Education
  ▫ Students will be able to correctly identify specific muscle groups used in marching band.
  ▫ Students will be able to create a workout plan to fit their interests.

• Math (Students will be in groups of three)
  ▫ Students will be able to correctly use a multi-use rule and gage to measure angles found in marching band.
  ▫ Students will be able to distinguish the types of angles found in band. (acute, right, obtuse)
Explanation of process used to develop resource bank

- We each split up our sources. Two of our sources are directed towards the connection between the content areas and marching band. Based on our content area objectives, we found three sources to fit them accordingly.
Resource Bank

Marching Band & Geometry scrapbook
  • http://prezi.com/y2y6kivekpmh/marching-band-geometry-scrapbook/

Types of Angles, and measuring angles
  • http://www.mathsisfun.com/angles.html

Baseball Game over angle definitions
  • http://www.factmonster.com/math/knowledgebox/player.html?movi=sfw41448
  • Classifying angles
  • How angles apply to band
Resource Bank cont.

In Shape for Marching Band

Marching Conditioning Exercises

Training Effects
• [http://coachsci.sdsu.edu/csa/vol11/shepard.htm](http://coachsci.sdsu.edu/csa/vol11/shepard.htm)

Fitness Tips
• [http://worklife.columbia.edu/fitness-tips](http://worklife.columbia.edu/fitness-tips)

Build Your Custom Fitness Plan
Resource Band Cont.

BreathingGym
www.brianshook.com/resources/Breathing-Gym Clinic.pdf
www.micromarching.com
www.youtube.com/watch?v=qEz0ku-oXM4
www.youtube.com/watch?v=6WWmM1jpM8I
www.dci.org
https://www.youtube.com/watch?v=5axJ4NLH_Xw
How will the resource bank be used?

- The online resource bank provides students with the opportunity to explore the topics presented in the unit. This provides context to the interdisciplinary connectedness of topics presented. Students will be able to use the resource bank to explore the topics that resonate with them in more depth and aid the student in the completion of unit objectives.
Interdisciplinary connectedness of topics

• The goal is to give students the opportunity to experience math and physical education while on the marching field. Students will gain valuable insight in math while using themselves to create angles on the field as well as learn how to become physically conditioned to create these shapes in sequence. Showing the ability to march and keep tempos to rhythmic selections of music will connect all of the units into a cohesive unified objective.
Overview of benefits

- See connectedness
- Critical thinking
- Help apply knowledge to real life
- Working with other students
Technology’s role in the accomplishment of instructional objectives

• Technology can be used to stunt or further the students understanding of the material depending on the merit of the web sources they use.

• Students can strengthen their understanding of the material by finding different websites that go along with their learning styles.