UNIT 6 - NAVAL SKILLS - MARINE NAVIGATION

Content Area:	Social Studies
Course(s):	
Time Period:	December
Length:	5 blocks
Status:	Published

Enduring Understandings

Demonstrate a basic understanding of navigation and the significant instruments used in this science

Essential Questions

- 1. Define navigation
- 2. Describe the terrestrial sphere as it relates to navigation
- 3. Cite the significance of the great circle
- 4. Define circular measurement
- 5. Describe the relationship of meridians as they pertain to measurement
- 6. Describe how distance is represented by a parallel circle on a globe
- 7. Explain how latitude and longitude are used to locate places on a map
- 8. Describe how nautical measurements are made at sea
- 9. Describe true and relative bearing
- 10. Explain the use of nautical charts
- 11. Describe how Mercator projection is used by navigators
- 12. Explain the purpose for the basic types of nautical charts
- 13. Describe how courses, bearings and lines of position are plotted on a nautical chart
- 14. Describe the navigational equipment and other means used to pilot a ship

Content

 Introduction to Navigation NS3-M3U4C1S1 – Knowledge of Navigation NS3-M3U4C1S2 – Nautical Measurements NS3-M3U4C1S3 – Nautical Charts NS3-M3U4C1S3 – Piloting
Aids to Navigation NS3-M3U4C2S1 – Navigational Lights NS3-M3U4C2S2 – Buoys
Time and Navigation NS3-M3U4C3S1 – Time and Time Pieces

Skills

- 1. Navigation
- 2. The terrestrial sphere as it relates to navigation

- 3. The significance of the great circle
- 4. Circular measurement
- 5. The relationship of meridians as they pertain to measurement
- 6. How distance is represented by a parallel circle on a globe
- 7. latitude and longitude are used to locate places on a map
- 8. Nautical measurements are made at sea
- 9. True and relative bearing
- 10. he use of nautical charts
- 11. How Mercator projection is used by navigators
- 12. The purpose for the basic types of nautical charts
- 13. Courses, bearings and lines of position are plotted on a nautical chart
- 14. The navigational equipment and other means used to pilot a ship

Resources

http://www.njrotc.navy.mil/curriculum.html

Naval Science III, Naval Knowledge and Skills for The NJROTC Student

Standards

Reading: Informational Text

RI.11-12.1. Cite strong and thorough textual evidence to support analysis of what the text says explicitly...

RI.11-12.4. Determine the meaning of words and phrases as they are used in a text...

RI.11-12.7. Integrate and evaluate multiple sources of information presented in different media or formats ...

Writing

W.11-12.1. Write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence.

W.11-12.2. Write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately...

W.11-12.6. Use technology, including the Internet, to produce, publish, and update individual or shared writing products...

Speaking & Listening

SL.11-12.1. Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11–12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively. W.11-12.2. Write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately ...

SL.11-12.5. Make strategic use of digital media...

Language

- L.11-12.4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases...
- L.11-12.6. Acquire and use accurately general academic and domain-specific words and phrases...