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

1 Introduction to Navigation NS3-M3U4C1S1 – Knowledge of Navigation
NS3-M3U4C1S2 – Nautical Measurements
NS3-M3U4C1S3 – Nautical Charts
NS3-M3U4C1S3 – Piloting
2 Aids to Navigation NS3-M3U4C2S1 – Navigational Lights
NS3-M3U4C2S2 – Buoys
3 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…