

142°E144°E146°E148°E

22°N

20°N

18°N

16°N

14°N

12°N

22°N

20°N

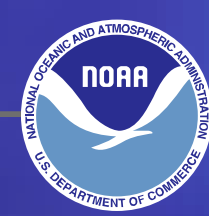
18°N

16°N

14°N

12°N

1st Grade Sail Plan



Maps and Charts

Geometry

Measurements

Associative Property
($2+6+4=2+10=12$)

Commutative Property
($1+2=3$ $2+1=3$)

Time

Subtraction

Addition

Place Values
(Ones, Tenths, Hundredths)

1-100

Mathematics Skills

Reflection

Presentation

Persuasive Essay

How-to Essay

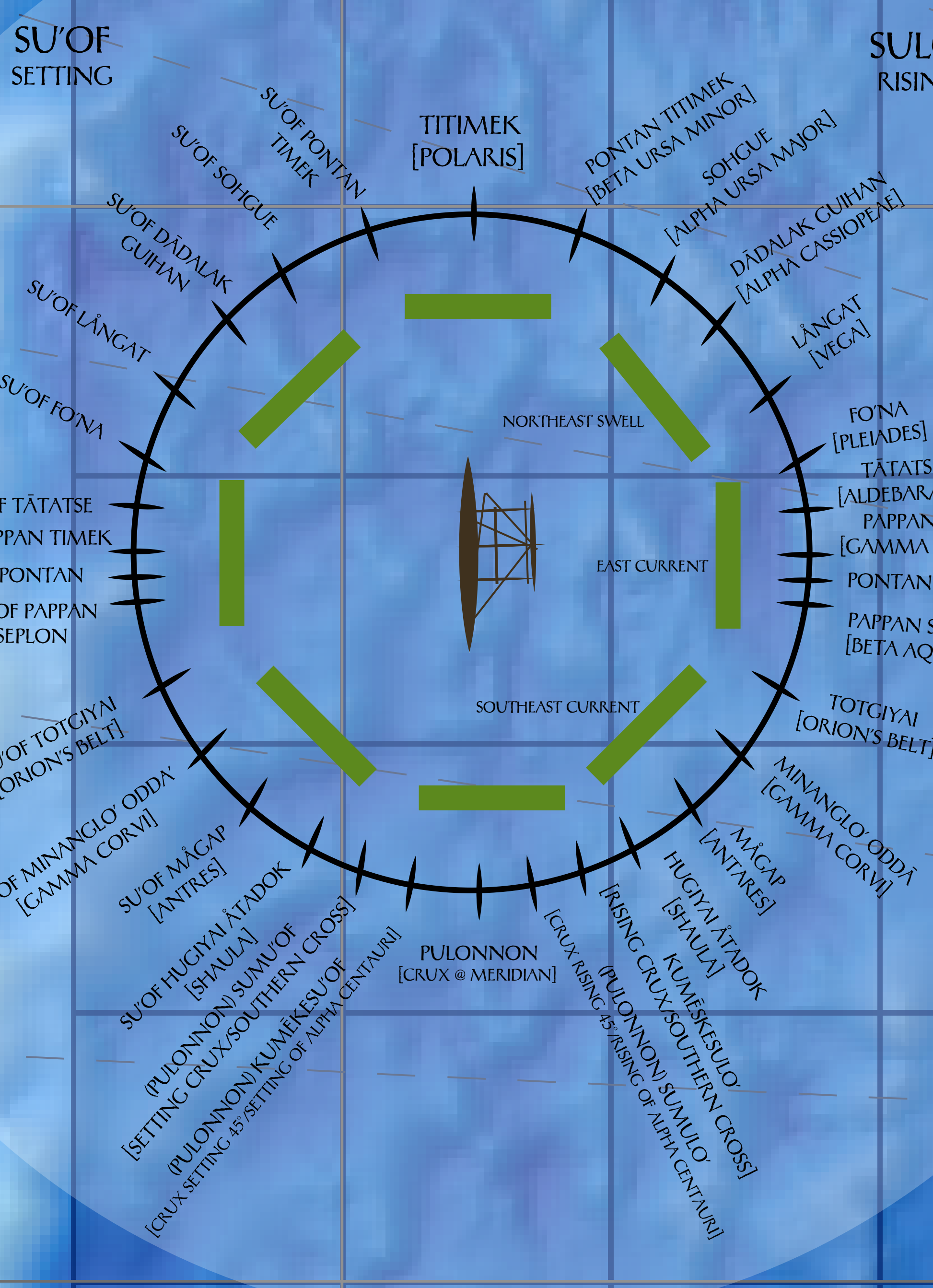
Informative Essay

Descriptive Essay

Opinion Essay

Personal Narrative

Writing Skills



Voyaging Values

- Inafa'maolek (Fostering Harmony)
- Respetu (Respect)
- Fana'ayuda (Cooperation/Assistance/Reciprocity)
- Maolek Kotdura (Good Judgement)
- Acha'ungak (Balance)
- Potfiha (Perseverance)
- Malate (Academic Knowledge)
- Tomtom (Practical Knowledge)

0 10 50 100 150 200 Kilometers

0 10 50 100 150 200 Mile

142°E144°E146°E148°E

Star Compass to Higan (Star Compass)

Adapted from the Pacific Continuum National Compass of Polynesian Island, Micronesia

Permission to utilize the star compass provided by:

Master Navigator Larry Ralston

Edited by Sandra Heke Okada and Vince Guella Rosario

Graphic design by Joyce Kaku

Classroom Seafaring Lesson Developed by The Marinas Seafaring Community, Traditions About Seafaring Islanders (TASI), Anthropologist and Historian Lawrence Cunningham

Classroom Voyaging Values Authored by University of Guam, School of Education Students with guidance from Master Canoe Builder and Cultural Consultant Rob Limtaco and School of Education Faculty Joseph Francisco

Original Marinas Map Elements designed by Joy Lecky (NOAA)

Graphic Design and Logistical Support by Patrick Kikawa

Sail Plan Concept and Coordination by Matthew Limtaco