

Island Navigation

What we have learned so far:

- locate yourself on a map using peaks and triangulation with a magnetic compass:
https://elab.hpa.edu/wiki/pages/U7x9h9U4B6/Lab_01_navigation_compass_challenge.html
- create an astrolabe to measure the height of objects in the elab:
https://elab.hpa.edu/wiki/pages/F6J5D8e4/Lab_03_navigation_astrolabe.html
- determine the altitude of peaks, also part of navigation, using an astrolabe that you create:
https://elab.hpa.edu/wiki/pages/U7x9h9U4B6/Lab_01_navigation_compass_challenge.html
- Polynesian sailing compass, using the stars to navigate at night
- learn how to read maps of the island:
https://elab.hpa.edu/wiki/pages/x5e2H8S/Lab_02_navigation_reading_maps.html
- use a globe and our noon shadow to determine latitude:
https://elab.hpa.edu/wiki/pages/C6S3f6/Lab_06_navigation_globes_and_calculating_latitude.html
- locate evil villains using clues:
https://elab.hpa.edu/wiki/pages/d429D3L/Lab_06c_navigation_find_the_evil_villains.html
- learn about the moon phases, and create a diagram:
https://elab.hpa.edu/wiki/pages/v155S7g/Lab_07a_moon_seasons_latitude_longitude_challenge.html
- [map out the solar system to see the seasons and how our shadow changes with latitude](#)
- create a sundial to measure time:
https://elab.hpa.edu/wiki/pages/b9Y4u6U4H/Lab_06a_making_a_sundial.html
- [Use the iPads to locate constellations at night:](#)

Next:

1. noon shadow check
2. moon phases-iPads
3. seasons, new map
4. 9.21.26 mapped on solar diagram
5. astronomy and astrology on solar diagram-ipads
6. next unit: volcanoes and geology

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