F.L.E.E.T.
www.fleetengineering.org

The American Society of Naval Engineers (ASNE) partnered with Navatek to create and disseminate FLEET, a hands-on application of engineering concepts. The game combines ASNE's 130-years of experience in naval engineering with Navatek's scientific and educational experience including the SeaPerch simulator program.

How FLEET Delivers Engineering Education

FLEET is an application of science and engineering standards needed for a variety of college and career pathways. ASNE's curricula shows how educators can scaffold this experience to ensure each student gains the critical understandings required by FLEET. For example, groups of middle school students qualitatively discuss why a new ship iteration was faster than the last one using language based on forces and motion. Groups of high school students can analyze the technical information provided by the simulator and balance the forces more scientifically.

All students will understand the design requirements in the mission checklist and engage in the cyclical design process of addressing real-world constraints, imagining solutions, running trials, and analyzing data to update mission requirements and re-run trials to improve success.

Why FLEET?

➢ Real-world, hands-on application of STEM
➢ Aligned to CCSM, NGSS, and most state's science and math standards
➢ Encourages experimental design and technology skills development
➢ Improves participation from underserved, underrepresented groups
➢ Utilizes youth-friendly gamification model
➢ Supports the inquiry-based learning model
➢ **100% free!!**

Are you creative? Do you like working with a team? Do you want to make a difference?

Consider Naval Engineering

Naval Engineers design ships and systems to meet the challenges of the 21st Century. People that are successful naval engineers:

- Collaborate well in teams
- Love solving problems and try many different solutions to solve difficult problems
- Think analytically and understand how a system works
- Want to work on ships and design in the water
- Use computers to design, test, and collect data about possible solutions
- Understand how to apply math and science concepts that are related to
- Make a difference in the lives of people around the world!

Engineers are changing the world all the time. They dream up creative, practical solutions and work with other smart, inspiring people to invent, design, and create things that matter.

Want to try engineering today? Download our free naval engineering game, FLEET, at www.fleetengineering.org.

Interested? Try these steps:

01 Contact the admission department at a school offering Naval Engineering, like: U.S. Naval Academy, U.S. Coast Guard Academy, U.S. Merchant Marine Academy, Villanova University, University of Michigan, University of New Orleans, Virginia Tech, SUNY – Maritime College, Webb Institute, Stevens Institute, Florida Institute of Technology, and Old Dominion University. (Be proactive and reach out! These people love working with prospective students.)

02 Consider whether you want to join a service and earn your degrees for free. (Recruiters can help you plan!)

03 Focus on your current studies so that you can write well, analyze math problems and use science concepts.

04 Tour museums or shipyards in your area. You may even find a mentor!

05 If you have an issue with any of these steps, email us at fleet@navalengineers.org. We would love to help you explore this career!

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