# **Topic: Introduction to Sailboats**

## **Primary Goal:**

A basic introduction to the sailboat. Students should be able to identify the parts of a sailboat and familiarize themselves with some of the terminology that will be used throughout the course.

#### **Lesson Objectives:**

- Ability to identify fundamental parts of a sailboat
- Introduction to boat terminology used throughout the course
- Introduction to some of the math and physics concepts that will be covered throughout the course

#### **Lesson Outline:**

- I. Establishing a Foundation: Parts of a Sailboat
  - **a.** When looking at the many pictures of all the different types of sailboats, students may become overwhelmed
  - **b.** It is important to emphasize that although boat designs may differ greatly, most of the fundamental elements are the same
  - **c.** Show the slide with the 7 boats and ask the students to identify the similarities/differences
    - i. Not only will this get the students engaged, but it will make them aware that they don't know the boat terminology
  - **d.** Learning boat terminology is like learning a new language → critical for communication
- II. Identify the Parts of a Sailboat
  - **a.** Hull the foundation of the boat that makes it a seagoing vessel
    - i. Bow, Stern, Port, Starboard
    - ii. Fiberglass, wood, metal
  - **b.** The Rig the structures coming up from the hull that support the sails
    - i. Mast, Boom, Forestay, Backstay, Shrouds
    - ii. Explain the importance of supporting the mast
  - **c.** Running Rigging all the gear and lines used to raise and trim the sails
    - i. Halyards, Sheets
  - **d.** Sails how a boat generates speed
    - i. Mainsail, Jib, Spinnaker
    - ii. Parts of the Sail: Luff, Leech, Foot
  - **e.** Underwater Appendages
    - i. Rudder. Keel





## **Supplemental Resources:**

School of Sailing Glossary: <a href="http://www.schoolofsailing.net/terminology.html">http://www.schoolofsailing.net/terminology.html</a>

US Sailing Video: Parts of a Boat: <a href="https://www.youtube.com/watch?v=vZ608lB0cII">https://www.youtube.com/watch?v=vZ608lB0cII</a>

## **Exercises/Activities**:

If you have access to boat models, bring in and allow the students to take turns identifying the parts of the sailboat. It will be good to provide them with a list of all the items covered during the course.

Separate the students into groups and create a competition using both the sailboat part identification and definitions (Sailboat Jeopardy works well).



