



TMM Educational Program: Shipbuilding

Overview: This program will focus on the process and tools of wooden shipbuilding, emphasizing the use of simple machines like wedges and pulleys throughout a shipyard to complete stages of work. Students will learn the characteristics and uses of different types of lumber for construction, different construction practices and designs as well as how simple physics made the entire process less labor intensive.

Audience: This program is designed for upper elementary age students (specifically grades 5-6), but may be adapted for other grade levels.

Theme: The theme of this program is the use of simple machines in shipbuilding.

Goal: The goal of this program is to learn about historic shipyards, boatbuilding techniques and tools including how simple machines and physics made daunting tasks much easier.

Activities: Build and demonstrate simple machines.

Vocabulary:

- Force
- Simple Machine
- Wedge
- Pulley
- Inclined Plane
- Ship of the Line
- Transom
- Hull
- Carvel
- Clinker