



Pathfinder's Name

Model Boats

1. Do two of the following:
- a. Purchase and build one kit for a sailboat 10 to 15 inches (25.4 to 38.1 cm) long and about four to five inches wide and operate boat on the water for at least two minutes.
 - b. Build a model boat with an electric motor from your own plans or from a kit, size 10 to 18 inches, (25.4 to 45.7 cm) and operate the boat for three to five minutes.
 - c. Build a model boat 18 to 30 inches (45.7 to 76.2 cm) long from your own plans or from a kit. Install a small bore internal combustion engine .029 or .049 and operate for at least two successful runs of three to five minutes each. Record in writing the operating characteristics of the model and state what you did to improve its performance.

2. Identify and define these words:

Displacement _____

Center of gravity _____

Propeller pitch _____

Thrust and lift _____

Mono hull _____

Hydro _____

Bow _____

Keel _____

Transom _____

Cavitation _____

Heeling _____

Planing _____

Drag _____

Date completed _____

Instructor's Signature _____