



Design and build a boat out of straws and plastic wrap that can hold 25 pennies for at least 10 seconds before sinking. Keep adding pennies to see which design holds the most.

**Age Level:** 3rd grade up

**Time:** 1 hour or longer if you improve design

**Science Applications:** Buoyancy, Density, Engineering, Newton’s Laws, gravity, scientific method

**County Available:** King County

### Kit Activity

- Comes with materials to work in groups or single. Youth build a boat that can hold a certain amount of weight in a cup. Discuss buoyancy, density, different boat designs, equal and opposite forces.



### Kit Contents:

- Facilitator Guide
- Student Sheet
- 2 bins to hold water
- Saran wrap
- Duct tape
- Straws
- Pennies
- Scissors to share
- Dixie cups

Helpful video to show you possible designs:

- <https://www.youtube.com/watch?v=XwQM0V5c4JU>



206-263-1915



360-337-7162



Pierce County

253-798-7160



425-357-6007



360-867-2157

Extension programs and employment are available to all without discrimination. Evidence of noncompliance may be reported through your local Extension office. Persons with disabilities who require alternative means for communication, program information or reasonable accommodation need to contact their local county WSU Extension Office at least two weeks prior to any event.