



OAKBROOK WAY ACADEMY

WEEK 5 | DISCOVERY WORKSHOP



WATER SCIENCE + ENGINEERING

Sink-or-Float Engineers

Predict, test, redesign, and discover how a foil boat can carry more.

1 • PACK THE LAB

☐ water bin or bowl ☐ towel + foil squares ☐
coins + safe test objects

2 • MAKE A PREDICTION

Choose each object. Circle SINK or FLOAT before testing.

3 • TEST CAREFULLY

Place one object in the water at a time. Watch closely. Record what really happened.

4 • BUILD A BOAT

Shape foil into a boat. Add coins one at a time. Redesign once and test again.

ENGINEER'S MISSION

Make your foil boat hold more coins the second time. Change one thing, then explain why it helped.

WAYLON'S SAFE JOB Choose between two large objects with a grown-up beside the water.

My Engineer Record

Explorer: _____ Date: _____

PREDICT + TEST

OBJECT

MY GUESS

WHAT HAPPENED

✓

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

BOAT TEST

First try held _____ coins.

Second try held _____ coins.

I changed _____

DRAW YOUR BEST BOAT



TELL WHAT YOU DISCOVERED

Oaklynn: My boat held more because...

Brooksley: Circle or tell. My boat: SANK / FLOATED