

INQUIRY 2

Science 8 September 2019

Mrs. Plyter plyter.com/science

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USE INQUIRY TO INVESTIGATE A PHENOMENON:
LIQUID MOLECULES ATTRACT EACH OTHER TO FORM DROPS.

PROBLEM:
 Compare the force of cohesion of different liquids.

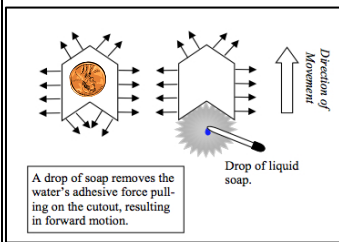
EXTEND: Compare Adhesion or Surface Tension.

- __1. Use Investigation Template in Google Classroom.
- __2. Use the Inquiry Notes from last week.
- __3. Complete **EACH** requirement for 4+.
 20+ _____

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BOAT NOTES

- __1. Science Home Page → Tools → Stopwatch2 ↓
- __2. Choose from available materials, ask, or bring your own. **Do not waste.**
- __3. Keep your boat in your Binder or ask.



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ENGINEERING DESIGN- INQUIRY: INVESTIGATE! PROBLEM:

Design, build & test a 5 (±1) centimeter long soap powered barge (boat) to carry one of your pennies in the "soap boat" races, & to go fast, go far, go straight.

Design, Measure, Draw, Label, Test, Organize Data and Record!

- Required for Racing:
- __1 Design Drawings with Measurements
 - __2. Data Chart.
 - __ Time
 - __ Distance
 - __ Straight Travel (1-5)
 - __ ???

Name _____

Period _____

Thursday

Friday

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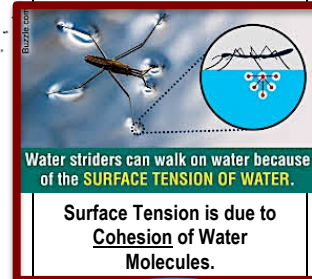
BOAT Races Points:

- __1. Ready to Race?
 - __ Boat +
 - __ Drawings +
 - __ Data Trials in Chart.

__2. Boats judged on:

- __a) Criteria in Problem __
- __b) Floats with Penny __
- __c) Straight Travel __
- __d) Speed: Win timed race! __
- __e) Distance Traveled: Win distance race. __

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EXTEND! CAN YOU FLOAT A PAPERCLIP?

Online Scientific Method
 Inquiry and Engineering →

Do Tutorial in order. A Screen Check is Required.

1) Tutorial _____

For Cricket, a Screen Check or Screen Shot of Trophy Required

2) Extra: Cricket _____

Calendars DUE
 The **Last Day** of the Week.
 In your Class Folder.

Points: Objective(s) + Grade

Materials Check Ask!

Inquiry

Boat Points

If Time: Online Scientific Method: Tutorial

Daily Quizzes:
 Write Points + Initial in Color

Mon _____

Tue _____

Wed _____

Thu _____

Fri _____

Total _____

CENTRAL SCIENCE HOME PAGE: www.plyter.com/science

Practice Tests → My Gradebook-[QuizLab](#) → Classword = plyter20 → Password = Student #

Google Page → Google Classroom → Sign in. Class Code: yzbzxn

Inquiry and Engineering → Online Scientific Method

Physical Science → Forces and Energy → USGS Surface Tension

(<https://www.usgs.gov/special-topic/water-science-school/science/water-properties>)

Tools → Stopwatch2 or Stopwatch. You may put/use the stopwatch on the Large Screen TV's.



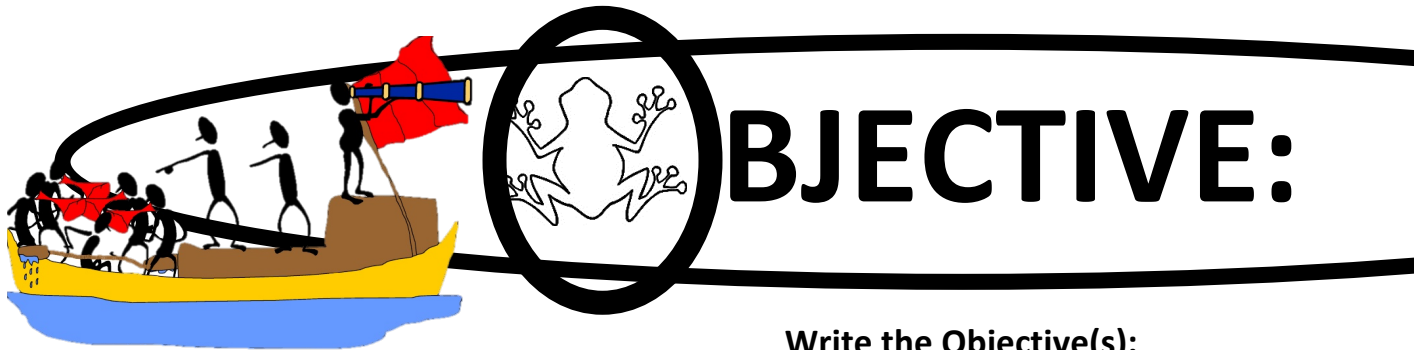


Figure your grade for last week:	
	<u>Yours</u> <u>Required</u>
Welcome & Rules	_____ 10
Objective & Blanks	_____ 10
Daily Quizzes	_____ 20
Totals	_____ 40
Yours / Required X 100 = Percentage	
_____ / 40 X 100 = _____	

Write the Objective(s):

Inquiry _____

The BOAT:

Your Boat: ___ 1) ___ Design, ___ Measure, ___ Draw Here →, ___ Label→, ___ Data Chart Headings ↓
 ___ 2) ___ Test, ___ Record Data, ___ Redesign, ___ Retest, ___ Record Data →
 ___ 3) ___ Enter a race. ___ Record.

Trial (Try)						



OBJECTIVE:

Use Scientific Inquiry as you investigate a phenomenon according to the “The Investigation Template”.

See *Inquiry Scoring Guide* on Google Classroom
Oregon 2014 Science Standards: Next Generation Science
Standards MS-PS2 (Page 56)

The BOAT

Evaluate (boat) design solutions with organized data and trials to determine how designs meet the criteria (requirements) of the problem.

Next Generation Science Standards
MS-PS2 (Page 56)