

LABORATORY REPORT SHEET
MBAS

NAME: _____ **DATE:** _____

Lab Report Title: Properties of Water and Other Liquids

Activity:

- Directions:
1. Read pages 154 – 155 in the Fluid Earth
 2. Go to Each Station and follow the directions at that station.
 3. Record observations and data
 4. Answer, on loose-leaf, the questions listed below.

Questions (Give page #) and/or Data:

Station #1

1. What happened to the die in the hot water? Cold water?
2. How are temperature differences you've noticed in the oceans like those you've observed in this experiment?
3. How does water form thermal density layers?
4. How do these layers affect visibility?
5. How do these layers look to a snorkeler?
6. Why might warm water sometimes be found below colder water?

Station #2

1. Which liquid will the container hold more of before it spills, water or alcohol?
2. What would happen in this experiment if water and alcohol were mixed?
3. How might you explain your observations?

Station #3

1. Is aluminum foil more or less heavy than an equal amount of water? Of alcohol?
2. If it is heavier, what keeps it afloat?

Station #4

1. Which liquid had the most salt dissolve in it? Why?

Station #5

1. Which liquid formed the roundest drops? The flattest drops?
2. Did all the drops maintain their shape?
3. What happened as the drops rolled down the inclined surface?
4. What other properties did you observe?

Station #6

1. When a fully loaded ship travels from open ocean through a canal into a freshwater river or lake, how does the way it floats change?
2. How would a non-athlete's body float in water compared to the body of a weight lifter? Who would float better? Why?

Conclusion

1. How do the properties of fresh water compare with the properties of salt water? Of alcohol?
2. Which of your observations can you not explain? Be specific