Buoyancy Study Sheet

Important Vocabulary Words:

1. buoyancy- upward force that makes things float
2. sink- fall below the surface of a liquid
3. float- stay above the surface of a liquid
4. displacement- the amount of liquid moved out of the way when an object is placed into a liquid.
5. capacity- the largest amount a container can hold
6. density- thickness or amount of matter in a given space
7. cargo- things we put in our boats (tiles)
8. compare- to see how things are alike and different
9. environment- every person, animal, plant and thing around you
10. pollution- to make something dirty or impure

Facts to remember:

1. The size and shape of our boat will affect its buoyancy.
2. Objects float better in salt water than regular water because salt water is denser.
3. The foil boat held more tiles because it had higher sides and weighed less than a clay boat.
4. Things float better in denser liquids.

Know the three characteristics of a good boat.

1. no holes
2. high sides
3. spread out the weight
4. flat bottom

Paragraph writing—See back of page.
Paragraph writing: Write a paragraph about Lab #6-Salt Water vs. Fresh Water

Be sure to:
1. Name the experiment
2. Tell what we wanted to figure out.
3. What materials did we use?
4. Describe the procedure.
5. Results—Tell in which liquid the cup held the most cargo.
6. Conclusion—What did you learn about the buoyancy of salt water and fresh water?

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Sample Paragraph:

Buoyancy Lab #6 - Salt Water vs. Fresh Water

In lab #6 we studied the buoyancy of salt water vs. fresh water. We wanted to find out if objects are more buoyant in salt water than in fresh water. We used fresh water, salt water, cups, tiles (cargo). I carefully put the cup in the fresh water. I added tiles to the cup. Then, I put the cup in the salt water and I added cargo to the cup. The cup in the salt water held more tiles than the cup in the fresh water. I learned that salt water is denser than fresh water and it is more buoyant.