**Blooms Taxonomy: 5 Questions**

**1) Comprehension:**

Tommy loves to swim, but one day something happened in the pool that puzzled him. Usually Tommy floats on the surface without any effort, but on this particular day Tommy exhaled all of the air in his lungs and began to sink. Tommy believes that he sunk because he ate a pizza before he went swimming. Can you explain to Tommy why he sunk?

**2) Synthesis:**

List four objects that are less dense than water. (Hint: think of objects you take to the beach). List four objects that are more dense than water.

**3) Analysis:**

Can you explain how a submarine can float and sink? (Hint: think about the floating ketchup packet). Once you have inferred an answer look it up online at <http://www.yesmag.com/how_work/submarine.html>

**4) Application:**

Many fish have something called an air bladder. The bladder enables fish to maintain a certain position in the water, and to move the fish up and down. Using your understanding of buoyancy and density, how do you think that the air bladder works?

**5) Evaluation:**

Tommy went swimming again, this time in the ocean. He found it much easier to float and attributed this to his new pizza-free diet. Can you explain to Tommy the real reason that he is able to float more easily in the ocean than his local pool?