

**Part 1**

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1. Name the brands and the contents of the condiment packets that floated.
  2. Name the brands and the contents of the condiment packets that did not float.
  3. Name the brands and the contents of the condiment packets that worked as Cartesian divers.
  4. How do you explain what you observed?
  5. What do the packets, that float, have in common?
  6. What do the packets, that sink, have in common?
  7. Is there anything inside the packets besides the condiment?
  8. Explain why objects float.
  9. Why do you think the condiment packet floats?
  10. What happens to the pressure on the inside of the bottle when you squeeze the bottle?
  11. When the bottle is squeezed what changes, to the condiment packet, are taking place?

**Part 2**

12. What is affecting the buoyancy of the condiment packet?
13. How might fish use this technique to become more or less buoyant?
14. How might a submarine use this technique to become more or less buoyant?
15. What can a scuba diver do to keep from floating back to the surface of the water?