1. Evaporate Some Water
   Explanation: The water level in the uncovered glass should have been lower. The cover reduced the evaporation rate in the other glass.

2. Count Your Pulse
   Explanation: One’s pulse is higher after exercise.

3. Produce some Carbon Dioxide
   Explanation: A chemical reaction between the baking soda and vinegar produces carbon dioxide. The detergent produces bubbles filled with the carbon dioxide.

4. Go “Birding”
   Explanation: The thrush you saw was most likely a robin, although here are two other species of thrush you might have seen: bluebird and brown thrush.

5. Sky Watching
   Explanation: I observed the sun and the moon

6. Keep it Warm
   Explanation: The covered cup should have been warmer because the cover retained more heat that the open cup.

7. Deep Diving Raisins
   Explanation:
   
   The raisins in the tap water did not rise and sink. The raisins in the soda drink rose and sank because carbon dioxide from the drink collected on them causing them to rise. Upon reaching the surface the carbon dioxide bubbles escaped into the air causing the raisins to fall to the bottom again.

8. Shapely Leaves
   Explanation: Species of Tree (Your own findings)
   Smooth Edges Simple Leaf ______________________
   Simple Leaf with Lobes or Teeth ________________
   Palmately Compound Leaf ______________________
   Pinnately Compound Leaf _______________________

   Explanation:
   A. Bird: Cardinal
   B. Tree: White Oak
   C. Flower: Common Violet
   D. Insect: Monarch Butterfly
   E. Grass: Big Bluestem
   F. Animal: White Tail Deer

10. Float that Cork in the Middle of the Bowl
    Explanation:
    A. With the water level below the top of the bowl the cork or ball probably went the side of the bowl because there was a negative meniscus which attracted it there.
B. With the full bowl the water formed a positive meniscus so the cork or ball was attracted to the crown of the meniscus in the middle of the bowl.