**Worksheet Eight**

**CORE**273 **SUM**18

NAME:

**Scientific Method and Research**

1. Find one **peer-reviewed journal article** (about anything at all) and hand it in with this worksheet. You do not have to read it, but it MUST be from a credible scientific journal – not a magazine article, web blog, facebook page, etc. Use the school library or Google Scholar to help you find something. It is important that you know where to *find* valid research.
2. Using the steps for the scientific method as well as the elements of a controlled experiment (slides 4 and 5), create hypothesis and experiment based upon your own observations (even if it is something that you already know the outcome of). Do not worry about creating data – simply state which type of data you would collect.
   1. *EX: I observe that after I drink soda, I get the hiccups. I hypothesize that the bubbles in carbonated beverages likely result in burps or hiccups in most people. I can test this by comparing the response of a large group of individuals to different drinks. I will have a control group that will drink only water. The experimental group will drink carbonated water (to attempt to control for all other substances in sodas and focus primarily on the bubbles). The two groups will drink their specified drink at the same time of day, as close to the same pace as possible, out of identical cups, and the same amount of fluid. They will be observed for their response (hiccups or burps). This qualitative data will be analyzed to determine the correlation between carbonation and hiccups/burps.*