1. Know that a function is **data attached to a domain**.

2. Know how to do all of the following for any given function:
   - Graph it.
   - Given input, compute output.
   - Given output, determine corresponding input.
   - Given domain interval, compute change in output.
   - Given domain interval, compute average **rate of change** of output.
   - Also be able to compute secant slope and average velocity, since these are all the same as average rate of change.

3. Learn vocabulary and notation for all of the above.
   - Functional notation is $f(x)$, where
     - $f$ is the name of the function,
     - $x$ is the name of the input,
     - the parentheses hold the input, and
     - $f(x)$, all together, is the symbol for the output that results from input $x$.
   - **Change of** $f$ is $\Delta f$.
   - **Change of** $x$ is $\Delta x$.
   - **Rate of change of** $f$ on an interval, average rate of change of $f$, secant slope, and **average velocity** (if $f$ measures position and $x$ is time) are ALL denoted by $\frac{\Delta f}{\Delta x}$

4. Understand how $\frac{\Delta f}{\Delta x}$ corresponds to a secant.