One-sided tests review

How does our alternative hypothesis change?

Why?

How do you choose your alternative hypothesis?

Based on subject matter knowledge (or logic)!

Never (***never!***) compare $\bar{y}_1$ with $\bar{y}_2$ to make your decision!!

What extra step do you need to do before calculating your test statistic?

Make sure your data agree with your alternative hypothesis!

What happens to your comparison (i.e., your table value)?

Make sure you choose the one sided (= one tailed = directional) value from the table!

What is your conclusion?

Notice that you can do a one sided test for most (but not all) tests that we learn in this class.

The computations do not change, but you do need to remember to do the two steps in italics above.

Why does a one sided test have more power?

Make sure you understand this!

(Comment: be careful when doing a one sided MWU test if you have the fourth edition - the MWU tables are a bit confusing unless you've fixed them).