Review for two sample *t*-tests.

What is your null hypothesis here?

How is it different from the hypothesis for a one sample test?

What is your alternative hypothesis?

Know how to calculate t^* (= t_s).

Know how to calculate the *d.f.* for this test (our big messy formula).

Note that you do not have to memorize either of these formulas.

As usual, make sure you know how to do your comparison (t^* vs. t_{table}), figure out alpha, etc. etc.

Don't forget that usually you will want to write out your conclusion.

Don't just say “reject” or “fail to reject”, what does your conclusion mean for the problem?

Know what we mean when we assume $\sigma^2_1 \neq \sigma^2_2$.