

### Finding Line of Best Fit & Correlation in the Graphing Calculator:

- You are given a list of X and Y values in a table

Now in the calculator...

**STAT – ENTER** (to select 1:Edit)

Enter X-values into List 1

Enter Y-values into List 2

**2<sup>nd</sup> – QUIT** (to exit to the main screen)

**STAT -- → -- ↓** (until...) – **LinReg(ax+b)**

(on XList) **2<sup>nd</sup> – 1** (to make sure it says List 1)

**↓** (to YList) **2<sup>nd</sup> – 2** (to make sure it says List 2)

**↓** (until...) – **Calculate – ENTER**

You should see  $y=ax+b$  at the top, then:

a=

b=

$r^2$ =

r=

The last one (r=) is your correlation!

...if you don't see  $r^2$  or r, then we need to turn on the Diagnostic. Follow the steps below, then repeat the top of this direction sheet.

**2<sup>nd</sup> – CATALOG** (at the Zero button) -- **↓** (until...) – **DiagnosticON – ENTER – ENTER** (it should say "Done")