Find 2 significant similarities between linear and quadratic:

1. both have a y or x intercept. they both have patterns
2. when y increases, x increases

Find 2 significant differences between linear and quadratic:

3. Q is curved, L is straight, L increases at a constant rate.
4. L: x is doubled, y is doubled. Q: x is doubled y is quadrupled.

Find 2 significant differences between linear and inverse:

5. I: when X incrases, y decreses
6. inverse never touches an axis

Find 2 significant differences between inverse and quadratic:

7. Q goes up, I goes down
8. I: y is decreased by half Q: y is quadrupled when we double x

Find 2 significant similarities between linear and quadratic:

1. domains are all numbers, any x works
2. when x increases, y increases
3. both can cross both the x and y axis

Find 2 significant differences between linear and quadratic:

3. linear is a true (streight) line
4. Q is exponential

Find 2 significant differences between linear and inverse:

5. inverses cannot cross the x or the y axis
6. linear is a streight line
7. Inverse: when x increases y decreases

Find 2 significant differences between inverse and quadratic:

7. quadratic will eventual come back up
8. quadratic can cross both axis

Find 2 significant similarities between linear and quadratic:

Pullies
Multiple objects
Nth dimention
Or vector stuff

1. both can either increase or decrease
2. both have x and y intercepts,
   can both start at zero

Find 2 significant differences between linear and quadratic:

3. when x is doubles y is doubled, for Q: when x is double y is quadrupled
4. linear cannot curve

Q: go both increase and decrease

Find 2 significant differences between linear and inverse:

5. inverse always goes down
   different equations
6. L: when x increase, y inceases , I: when x gets bigger, y gets smaller

I can never have a y or x intercept

Find 2 significant differences between inverse and quadratic:

7. I divides by x, Q multiplies by x
8. Q when x gets bigger y gets bigger I when x gets bigger y gets smaller

Test 1 content:

- for each pattern:
  - > represent graphically
  - > write the equation
  - > fill out a table
- Lab stuff
  - > Identify variables
  - > Graph the data
  - > Graph the uncertainty
  - > Recognize patterns
  - > Write out equation
  - > What does the slope represent
  - > Make a prediction
  - > Write a conclusion
- Compare and contrast relationships
- Why do we prefer data informed decisions over wild guesses?