**IXL.com – Extra Practice Problems**

**Chapter 2 – Linear Functions (Algebra 1)**

S.3 Find slope from two points

S.5 Slope intercept form

S.9 Linear function word problems

S.14 Graph horizontal and vertical lines

S.15 Point slope form graphing

S.18 Slopes of parallel & perpendicular lines

**Chapter 3 – Linear Systems (Algebra 1)**

U.1 Is it a solution

U.2 Solve by graphing

U.8 Solve by substitution

U.9 Solve system word problems

**Chapter 3 – Matrices (Algebra 2)**

G.3 Add and subtract matrices

G.4 Multiply by a scalar

G.6 Multiply two matrices

G.9 Solve matrix equations

G.10 ~~Determinant of a matrix~~

G.12 ~~Inverse of a matrix~~

G.14 Solve matrix equations using inverses

**Chapter 4 – Quadratics (Algebra 1)**

BB.3 Transformations of quadratic function

BB.4 Solve using square roots

BB.5 Solve using zero product property

BB.6 Solve using factoring

BB.8 Solve using completing the square

BB.9 Solve using quadratic formula

**Chapter 4 – Quadratics (Algebra 2)**

T.2 Find vertex of parabola

T.5 Write equations in vertex form

T.9 Graph parabolas

**Chapter 5 – Higher Order (Algebra 2)**

O.1 Add & subtract functions

O.2 Multiply functions

**Chapter 5 – Higher Order (Algebra 2)**

I.4 Factor by grouping

I.5 Factor sum / difference of cubes

I.6 Factor polynomials

**Chapter 5 – Higher Order (Algebra 2)**

K.4 Divide using long division

K.5 Divide using synthetic division

K.7 Solve polynomial equations

K.8 Write equation from roots

K.9 Find roots of factored form

K.10 Rational root theorem

K.14 Match polynomials to graphs

**Non-Linear Systems and Inequalities**

F1. Is (x,y) a solution for the system?

F2. Solve systems of inequalities- graphing.

F3.Systems of Non-Linear Inequlaities –graphing

**Linear Programming**

F.4 Find the vertices of a solution set

F.5 Linear Programming