

## Algebra Unit 4: Systems

**Universal Essential Question: Why is resilience an influence on success?**

**Content Essential Question: How are relationships connected to resilience?**

<b>Learning Objectives</b>	<b>Self-Rating, evidence from my INB and practice papers</b>		
At the completion of this unit, I should ...	0 – I have no idea. 1 – I cannot solve problems yet but I am beginning to understand the strategies 2 – I can solve problems but do not yet know why the math works. 3 – I understand why the math works and can solve most problems but still make mistakes. 4 – I understand why the math works and can consistently and accurately solve problems.		
<b>Know</b>			
– The solution to a system is the point of intersection			
– Vocabulary involving systems			
<b>Be able to</b>			
– Identify systems that have no solution and infinite solutions.			
– Graph a system of linear equations.			
– Solve a system using substitution.			
– Solve a system using elimination.			
– Identify which method is most effective for specific problems.			
– Write and model a system of equations for a real world problem.			
<b>Understand</b>			
– The point(s) of intersection are the values that satisfy all algebraic equations.			
– That systems have different types of solutions			

### Vocabulary of systems

Consistent

Inconsistent

Solution: infinite, no solution, one solution

Intersection

System

Dependent

Independent

## Reflection page

Areas of success for this unit and justification	Areas that need more practice and/or deeper understanding, justification, and specific goals to achieve complete mastery
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How does the mathematics we studied in this unit relate to the content and universal essential questions? Be specific by providing evidence from your learning activities for the unit.