

### **DAY 1 – Agenda**

9:30 – 10:10	Welcome, Introductions, Overview
10:10 – 11:10	KAT Pretest
11:10 – 11:20	Break
11:20 – 12:00	Operating with Integers – Addition using GSP
12:00– 12:45	Lunch
12:45 – 1:30	Operating with Integers – Subtraction using GSP
1:30 – 2:15	Mathematical Task Framework
2:15 – 2:30	Break
2:30 – 4:00	Operation Properties using GSP
Homework	Read Chapters 1-3 in 5 Practices Book

## **DAY 2 – Agenda**

9:30 – 10:00	VCL Training
10:00 – 11:00	Relations and Functions
11:00 – 11:15	Break
11:15 – 12:00	Points Lining Up in the Plane Using GSP
12:00– 12:45	Lunch
12:45 – 1:30	How Slope is Measured Using GSP
1:30 – 2:15	Using Sliders to explore the slope and y intercept of a linear function
2:15 – 2:30	Break
2:30 – 3:15	Modeling with Linear Functions using Multiple Representations ( <i>Lesson 4.3 from Discovering Algebra</i> )
3:15 – 4:00	Discussion of the Readings
Homework	Read Chapters 4 and 5

### **DAY 3 – Agenda**

9:30 – 10:15	Solving Linear Equations by Balancing
10:15 – 11:00	Solving by Graphing and Connecting to Systems of Linear Equations
11:00 – 11:15	Break
11:15 – 12:00	Work with partners/small groups on lesson plan ideas
12:00– 12:45	Lunch
12:45 – 1:30	Inequalities Jigsaw Activity (Expert Groups) - Both Properties of Inequalities, Solving Inequalities by Substitution, Solving Inequalities by Balancing, Solving Compound Inequalities, Graphing Inequalities in Two Variables, Graphing Systems of Inequalities. For expert groups who finish early they can explore the SketchExchange area of Key Curriculum Press
1:30 – 2:15	Inequalities Jigsaw Activity (Mixed Groups)
2:15 – 2:30	Break
2:30 – 2:45	VCL Training
2:45 – 3:00	Discussion of Homework Assignment (analysis of Algebra I video clips)
3:00 – 5:00	Work with Professional Role Models
Homework	Analysis of Videoclip Algebra I (Systems)

### **DAY 4 – Agenda**

9:30 – 10:15	Discussion of System of Equations Videoclip
10:15 – 11:00	Connections between Algebra and Geometry (Circumference Function)
11:00 – 11:15	Break
11:15 – 12:00	Connections between Algebra and Geometry (Area of a Triangle)
12:00– 12:45	Lunch
12:45 – 1:30	Linear Dynagraph Activity
1:30 – 2:15	Planning
2:15 – 2:30	Break
2:30 – 4:00	Planning
Homework	Finalize Lesson Plans

### **DAY 5 – Agenda**

9:30 – 10:15	Creating and Sharing of Dynagraphs
10:15 – 11:00	Analysis of Dynagraph Videoclip
11:00 – 11:15	Break
11:15 – 12:00	Lesson Presentations (3 presentations)
12:00– 12:45	Lunch
12:45 – 1:30	Lesson Presentations (3 presentations)
1:30 – 2:15	Lesson Presentations (3 presentations)
2:15 – 2:30	Wrap Up and Next Steps