IMK Unit 4:
Addition and Subtraction on the Number Line

Essential Standards	
2.MD.6	Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1,2,..., and solve addition and subtraction problems within 100 on the number line diagram.
2.OA.1	Use addition and subtraction within 100 to solve one and two step word problems.
2.NBT.5	Use place value understanding and properties of operations to add and subtract. **Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction**
2.NBT.2	- Count within 1,000 - Skip-count by 5s, 10s, and 100s beginning at zero

Summative Assessment		
End-of-Unit Assessment		
2.MD.6 2.NBT.4	Students will be able to label and plot points on a number line.	Questions 3a, 5a, 7
2.MD.6 2.OA.1 2.NBT.5	Students will be able to solve word problems.	Question 5
2.NBT.2	Students will skip count within 100 by 5s and 10s.	Questions 7b, 7c
2.NBT.2	Students will count within 100s by ones.	Question 7a
2.MD.6	Students will use a number line to solve subtraction.	Question 3
2.MD.6	Students will use a number line to solve addition.	Question 5b

Learning Targets and Formative Assessments

Students will know...

Learning Target	DOK
Students will know to read a number line from left to right.	1
Students will know that numbers are sequential.	1
Students will know that if the arrow goes to the right, or forwards, you are adding.	1
Students will know that if the arrow goes to the left, or backwards, you are subtracting.	1

Students can do...

Learning Target	DOK	Assessment Items
Students will be able to label and plot points on a number line.	1	Cool Downs: 1, 3, 4 (#1-2 only) Section A Checkpoint: #1, #2a
Students will be able to solve word problems.	2	Cool Downs: 13 Section B Checkpoint: 3
Students will skip-count within 100 by 5s and 10s.	1	Cool Downs: 3
Students will count within 100 by ones.	1	Cool Downs: 1 Section B checkpoint #2a
Students will use a number line to solve subtraction.	1	Cool Downs: 9, 10, 11 Section B checkpoint #2b
Students will use a number line to solve addition.	1	Cool Downs: 10, 11

Academic Language

greater than	less than	equal to	place value	digit
compare	solve	addition	subtraction	word problems
add	subtract	whole numbers	number line	solve

difference	sum	properties	operations	strategies
commutative property	additive property	associative property	analyze	tape diagram
situation				

Common Misconceptions

Lesson	Misconception

Unit Reflection

- Teach lesson 12, do not take a grade
- Cut lesson 5
- Lesson 13- Do not teach the lesson. Have students practice solving Greg Tang word problems on a number line. Use the Cool Down as an assessment.
- Unit Assessment #6 needs to be reworded (trick question!)

Unit Pacing

Day 1	Day 2	Day 3
Lesson 1: Whole Numbers on the Number Line CFA: Cool Down	Lesson 2: Features of a Number Line	Lesson 3: Unlabeled Tick Marks CFA: Cool Down
Day 4	**Day 5**	**Day 6**
Lesson 4: Compare Numbers on a Number Line CFA: Cool Down	Interventions CFA: Section A Checkpoint	Lesson 7: Addition and SUbtraction on the Number Line CFA: Cool Down
Day 7	**Day 8**	**Day 9**
Lesson 8: Equations on a Number Line	Lesson 9: The difference between numbers	Lesson 10: Place Value and the Number Line

CFA: Cool Down	CFA: Cool Down	CFA: Cool Down
Day 10	**Day 11**	**Day 12**
Lesson 11: Different Ways to Add and Subtract CFA: Cool Down	Lesson 12: Equations with Unknowns	Lesson 13: Represent Story Problems
Day 13	**Day 14**	**Day 15**
Interventions CFA: Section B Checkpoint	Interventions	CSA: End-of-Unit Assessment