

# 6-WEEK SMALL GROUP INTERVENTION PLAN

USING PLACE VALUE TO ADD

**Grade Level:** 2nd Grade | **Group Size:** 5 Students

**Duration:** 6 weeks | **Frequency:** 3 times per week (30 minutes per session)

## GROUP PROFILE

- **Grade Level:** 2nd Grade
- **Number of Students:** 5 students
- **Focus Area:** Using place value understanding to add within 100 and 1000
- **Duration:** 6 weeks (3x/week, 30-minute sessions = 18 total sessions)

## BENCHMARK-BASED LEARNING GOALS

Based on the **ALN Grade 2 HLC Progressions**, this intervention addresses:

### PRIMARY BENCHMARKS:

#### Operations with Addition:

- Students will add numbers accurately, flexibly, efficiently, and strategically **within 100** using place value understanding (in context, across multiple problem situations, and in equations)
- Students will progress toward adding **within 1000** using decomposition and place value strategies

#### Composition & Decomposition:

- Students will flexibly compose and decompose 2-digit and 3-digit numbers into place value parts
- Students will understand unitizing: 10 ones = 1 ten; 10 tens = 1 hundred

#### Place Value Understanding:

- Students will model and identify numbers that are 10 more/10 less within 100 and 1000
- Students will understand that each digit's position determines its value

#### Developing Fact Fluency:

- Students will use understanding of combinations to 10 to find combinations to 20, multiples of 10s partners to 100, and extend to 1000

 [Download ALN Grade 2 HLC Progressions](#)

**WEEK 1: BUILDING PLACE VALUE FOUNDATIONS (Sessions 1-3)****Focus:** Understanding 2-digit numbers and their place value parts**Session 1 (30 minutes)****Launch (5 min):** Visual Images - Dot Patterns #02

Display the dot pattern image and ask "What do you notice? What do you wonder?" Guide students to notice groupings of 5 or 10; connect to place value thinking

**Main Activity (15 min):** Place Value Compare Game

Students play in pairs using 2-digit cards only. Focus on comparing numbers by looking at tens place first, then ones place

**Closure (10 min):** Group Discussion

Each student shares one card comparison they made and explains how they knew which number was greater

 [Visual Images - Dot Patterns #02](#) [Place Value Compare Game](#)**Session 2 (30 minutes)****Launch (5 min):** Additive Number String - Addition Facts within 10, Ten Frames

Quick mental math using ten frames. Connect "making 10" strategies to place value

**Main Activity (15 min):** Grade 2 Task - Adding and Subtracting on a Number Line

Students explore how addition strategies connect to place value. Focus on understanding that addition and subtraction are related operations

**Closure (10 min):** Turn and Talk

Students explain to a partner: "How does understanding tens and ones help us add?"

 [Number String - Ten Frames](#) [Grade 2 Task - Number Line](#)**Session 3 (30 minutes)****Launch (5 min):** Additive Number String - Evaluate THEN Calculate - Addition Within 120

Students evaluate problems like  $64 + 32$  mentally before calculating. Discuss: "Which problems are easiest? Why?"

**Main Activity (15 min):** Place Value Golf Game

Use Recording Sheet A or B. Students roll dice to create 2-digit numbers matching specific criteria

**Closure (10 min):** Quick Share

Students share their favorite round and explain their strategy

 [Number String - Addition Within 120](#) [Place Value Golf Game](#)

## WEEK 2: DECOMPOSING TO ADD WITHIN 100 (Sessions 4–6)

**Focus:** Decomposing one or both addends using place value

### Session 4 (30 minutes)

**Launch (5 min):** Additive Number String - Adding multiples of 10 and near multiples within 100

Students notice patterns:  $67 + 10$ ,  $67 + 11$ ,  $67 + 20$ ,  $67 + 19$ . Discuss how adding 19 is like adding 20 and adjusting

**Main Activity (15 min):** Grade 2 Task - Helping Solve A Problem #02

Students explore June's and Harrison's strategies for solving  $82 - \underline{\quad} = 43$ . Connect subtraction to addition using place value reasoning

**Closure (10 min):** Strategy Share

"Which strategy makes more sense to you? Why?"

 Number String - Multiples of 10

 Grade 2 Task - Helping Solve

### Session 5 (30 minutes)

**Launch (5 min):** Mental Math Warm-Up

Call out problems like:  $34 + 20$ ,  $34 + 21$ ,  $45 + 30$ ,  $45 + 29$ . Students show thumbs up when they have the answer

**Main Activity (15 min):** Place Value Compare Game

Now include 3-digit cards. Students practice reading and comparing larger numbers

**Closure (10 min):** Exit Ticket

Solve:  $46 + 27$ . Show your thinking using place value.

 Place Value Compare Game

### Session 6 (30 minutes)

**Launch (5 min):** Quick Number Talk

Display:  $53 + 28$ . Ask students to turn and talk about how they would solve it

**Main Activity (15 min):** Grade 2 Task - Adding and Subtracting within 1000 on a Number Line

Students explore Sophie's strategy of using both addition and subtraction. Focus on understanding flexibility in problem-solving

**Closure (10 min):** Reflection

"What's one new addition strategy you've learned this week?"

 Grade 2 Task - Within 1000

## WEEK 3: EXTENDING TO 3-DIGIT NUMBERS (Sessions 7-9)

**Focus:** Using place value to add within 1000

### Session 7 (30 minutes)

**Launch (5 min):** Count Around the Circle

Count by 10s starting at different numbers (e.g., start at 247, count to 347). Highlight the pattern: only the tens place changes

**Main Activity (15 min):** Place Value Golf Game

Use Recording Sheet C (more challenging criteria). Students create 2-digit numbers to meet algebraic criteria

**Closure (10 min):** Strategy Discussion

"Which round was hardest? Why?"

 Place Value Golf Game

### Session 8 (30 minutes)

**Launch (5 min):** Visual Images - Circles #01

Ask: "What do you notice? What do you wonder?" Connect observations to grouping and place value

**Main Activity (15 min):** Grade 2 Task - Adding and Subtracting on a Number Line (revisited)

Now focus on showing another way to solve  $37 + \underline{\quad} = 104$ . Encourage students to decompose both numbers

**Closure (10 min):** Journal Prompt

Students write about a strategy that helps them add larger numbers

 Visual Images - Circles #01

 Grade 2 Task - Number Line

### Session 9 (30 minutes)

**Launch (5 min):** Number String

Display:  $200 + 300$ ,  $210 + 300$ ,  $215 + 300$ . "What stays the same? What changes?"

**Main Activity (15 min):** Place Value Compare Game

Mixed 2-digit and 3-digit cards. Students discuss how they know which number is greater

**Closure (10 min):** Exit Ticket

Compare: 345 and 354. Which is greater? How do you know?

 Place Value Compare Game

## WEEK 4: FLUENCY WITH ADDITION STRATEGIES (Sessions 10-12)

**Focus:** Flexible, efficient addition within 100 and 1000

### Session 10 (30 minutes)

**Launch (5 min):** Additive Number String - Addition Within 120

Review problems:  $64 + 32$ ,  $54 + 21$ ,  $35 + 23$ . "Which problem is easiest? Why?"

**Main Activity (15 min):** Grade 2 Task - Helping Solve A Problem #02 (revisited)

Students create their own similar problems and solve using two different strategies

**Closure (10 min):** Gallery Walk

Students post their problems and walk around to see others' strategies

 Number String - Addition Within 120

 Grade 2 Task - Helping Solve

### Session 11 (30 minutes)

**Launch (5 min):** Mystery Number

"I'm thinking of a number. It has 4 tens and 7 ones. What's my number?" "How much is 10 more? 10 less?"

**Main Activity (15 min):** Place Value Golf Game

Students create their own recording sheet with custom criteria. Play with a partner

**Closure (10 min):** Share Custom Criteria

Each pair shares one creative criterion they created

 Place Value Golf Game

### Session 12 (30 minutes)

**Launch (5 min):** Quick Images

Flash Visual Images - Dot Patterns #02 for 3 seconds. "How many dots did you see? How did you count them?"

**Main Activity (15 min):** Grade 2 Task - Adding and Subtracting within 1000 on a Number Line (revisited)

Students work on  $435 - 245$  using Sophie's strategy. Extend to addition:  $435 + 245$

**Closure (10 min):** Journal Prompt - Grade 2 #13

"Convince me that I can solve any subtraction problem using addition."

 Visual Images - Dot Patterns #02

 Grade 2 Task - Within 1000

 Journal Prompt - Grade 2 #13

## WEEK 5: APPLYING PLACE VALUE TO REAL CONTEXTS (Sessions 13–15)

**Focus:** Using place value strategies in word problems and contexts

### Session 13 (30 minutes)

**Launch (5 min):** Story Problem Warm-Up

"There are 34 students in Room A and 28 in Room B. How many total?" Students turn and talk about their strategy

**Main Activity (15 min):** Grade 2 Task - Adding and Subtracting on a Number Line

Students create their own word problems that match the equations in the task. Share with the group

**Closure (10 min):** Problem Swap

Students exchange problems with a partner and solve

 [Grade 2 Task - Number Line](#)

### Session 14 (30 minutes)

**Launch (5 min):** Additive Number String - Adding multiples of 10 within 100

Review patterns with near multiples

**Main Activity (15 min):** Place Value Compare Game (Tournament Style)

Students compete in pairs; winner moves to next round. Observe strategies and flexibility

**Closure (10 min):** Reflection

"Which place value strategy do you use most often? Why?"

 [Number String - Multiples of 10](#)

 [Place Value Compare Game](#)

### Session 15 (30 minutes)

**Launch (5 min):** Count by 100s

Start at any 3-digit number (e.g., 247) and count forward by 100s. "What changes? What stays the same?"

**Main Activity (15 min):** Grade 2 Task - Helping Solve A Problem #02

Students solve using both June's and Harrison's methods. Discuss which is more efficient for different problems

**Closure (10 min):** Exit Ticket

Solve  $345 + 278$ . Show two different strategies.

 [Grade 2 Task - Helping Solve](#)

## WEEK 6: REVIEW, ASSESSMENT & CELEBRATION (Sessions 16-18)

**Focus:** Demonstrate understanding and celebrate growth

### Session 16 (30 minutes)

**Launch (5 min):** Student-Led Number String

Each student contributes one addition problem to solve together

**Main Activity (15 min):** Place Value Golf Game (Final Tournament)

Students play for accuracy and efficiency. Teacher observes and records strategies used

**Closure (10 min):** Strategy Share

"What's your favorite place value strategy?"

 Place Value Golf Game

### Session 17 (30 minutes)

**Launch (5 min):** Reflection Discussion

"How have you grown as a mathematician over the past 6 weeks?"

**Main Activity (15 min):** Assessment Tasks

Students complete selected problems from Grade 2 Task - Adding and Subtracting within 1000 on a Number Line. Observe student strategies and flexibility

**Closure (10 min):** Self-Assessment

Students rate their confidence with place value addition strategies

 Grade 2 Task - Within 1000

### Session 18 (30 minutes)

**Launch (5 min):** Celebration Circle

Each student shares one thing they're proud of learning

**Main Activity (15 min):** Place Value Compare Game (Free Play)

Students choose their game level and play for fun

**Closure (10 min):** Individual Conferences

Teacher meets briefly with each student to discuss next steps and growth

 Place Value Compare Game

# PROGRESS MONITORING

## Method 1: Observational Checklist (Weekly)

Use this checklist during sessions to track student progress. Check progress at the end of Weeks 2, 4, and 6.

Student Name	Compares 2-digit numbers using place value	Decomposes numbers to add within 100	Uses 10 more/10 less fluently	Adds within 100 flexibly	Extends strategies to 1000
Student 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Student 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Student 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Student 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Student 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Method 2: Exit Tickets (2x per week)

### Sample Questions:

- **Week 1:** "What is 10 more than 47?"
- **Week 2:** "Solve  $36 + 28$ . Show your thinking."
- **Week 3:** "Compare 245 and 254. Which is greater? How do you know?"
- **Week 4:** "Solve  $156 + 237$  using place value."
- **Week 5:** "Create a word problem for  $345 + 178$ ."
- **Week 6:** "Show two ways to solve  $67 + 29$ ."

**Mastery Criteria:** Student can complete exit ticket independently with 80% accuracy on 3 consecutive attempts

## MATERIALS LIST

### Downloadable Resources:

1. [ALN Grade 2 HLC Progressions](#)
2. [Place Value Compare Game](#)
3. [Place Value Golf Game](#)
4. [Grade 2 Task - Adding and Subtracting on a Number Line](#)

5. Grade 2 Task - Helping Solve A Problem #02

6. Grade 2 Task - Adding and Subtracting within 1000

7. Journal Prompt Grade 2 #13

8. Additive Number String - Addition Within 120

9. Additive Number String - Multiples of 10

10. Visual Images - Dot Patterns #02

11. Visual Images - Circles #01

12. Additive Number String - Ten Frames

### Concrete Materials:

- Base-10 blocks (hundreds, tens, ones)
- Place value cards (0-9, multiples of 10, hundreds)
- Two dice per pair
- Dry erase boards & markers
- Index cards for exit tickets
- Brass fasteners and cardstock strips (for Place Value Compare Game)



## DIFFERENTIATION NOTES

### For Students Who Need More Support:

- Use base-10 blocks for every Main Activity
- Provide number lines (0-100 or 0-1000) as visual supports
- Allow partner work during independent practice
- Start with 2-digit numbers only; extend to 3-digit when ready

### For Students Who Need Extension:

- Challenge with 3-digit addition involving regrouping
- Ask them to create word problems for their equations
- Have them explain strategies to peers
- Introduce missing addend problems (e.g.,  $345 + \underline{\quad} = 600$ )

## NEXT STEPS AFTER INTERVENTION

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### Students Are Ready to Advance When They Can:

-  Independently add any 2-digit numbers using place value decomposition
-  Explain why their chosen strategy works
-  Flexibly choose between multiple strategies based on the numbers
-  Extend place value understanding to 3-digit addition
-  Use addition to solve subtraction problems (and vice versa)

### Follow-Up Concepts:

1. Subtraction within 100 and 1000 using place value
2. Multi-step word problems involving addition and subtraction
3. Introduction to multiplication as repeated addition

### Home Practice Resources:

- Send home copies of **Place Value Golf** recording sheets for family game nights
- Encourage counting by 10s and 100s from any starting number during car rides
- Share simple addition contexts: "We drove 45 miles today and 38 miles yesterday. How many total?"

## TEACHING TIPS

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1. **Always connect to place value:** Every addition problem should include a conversation about "How many tens? How many ones?"
2. **Use multiple representations:** Show addition with base-10 blocks, number lines, AND equations side-by-side.
3. **Ask "Why?" constantly:** Don't just accept correct answers—have students explain their decomposition thinking.
4. **Celebrate multiple strategies:** There's no "one right way" to add—honor different approaches and discuss efficiency.
5. **Emphasize flexibility over speed:** Deep understanding beats quick answers every time.
6. **Build on what they know:** Always connect new strategies to combinations to 10 and patterns with multiples of 10.

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