

Teaching Script: Early Years Number Adventures

Topic: Counting and Number Operations

Grade Level: Reception/Kindergarten (Ages 5-6)

Duration: 60 minutes

Learning Objectives:

- Count confidently to 20 using one-to-one correspondence
- Recognize and sequence numbers 1-20
- Understand basic addition and subtraction within 10
- Use mathematical language to explain thinking

✓ Large number line (1-20)

✓ Individual number cards

✓ Counting bears (20 per student)

✓ Ten frames

✓ Student workbooks

✓ Visual aids

✓ Number songs playlist

✓ Assessment sheets

Pre-Lesson Setup and Preparation

Room Organization:

- Create a welcoming carpet area for circle time activities
- Arrange desks in groups of 4 for collaborative learning
- Set up a dedicated math center with easily accessible manipulatives
- Display number line and visual aids at children's eye level
- Prepare technology for number songs and interactive activities

Common Early Number Misconceptions:

- Counting sequence memorization without understanding quantity
- Difficulty with one-to-one correspondence
- Number reversals (particularly 2, 3, 5, 7, 9)
- Confusion between teen numbers

Lesson Introduction (Minutes 0-5)

5 minutes

"Good morning mathematicians! Today we're going on a counting adventure. Are you ready to be number explorers?"

[Stand at the front, showing excitement and energy]

Teacher Actions:

- Use welcoming, enthusiastic tone
- Guide students to carpet area
- Begin "Counting to 20" song with actions
- Point to numbers on display while singing

Key Phrases:

- "Let's count together like number explorers!"
- "Watch as I point to each number."
- "Show me your counting fingers!"
- "Can you be my special counting helpers?"

Expected Student Engagement:

- Join circle time promptly
- Participate in counting song
- Follow number sequence
- Mirror teacher's counting actions

Number Recognition Activity (Minutes 5-10)

5 minutes

"Now we're going to play a special number detective game. Each of you will become a number detective looking for special numbers!"

Activity Sequence:

1. Distribute number cards 1-20 to each student
2. Model how to arrange cards face-down
3. Demonstrate number hunt procedure
4. Guide independent practice

Differentiation Strategies:

- Higher ability: Use numbers to 30
- Support needed: Focus on numbers 1-10
- EAL students: Provide visual number cards

Success Criteria:

- Correctly identify numbers 1-20
- Sequence numbers in order
- Recognize missing numbers
- Work independently

Hands-On Counting (Minutes 10-15)

5 minutes

"It's time to wake up our counting bears! They need your help to get into special groups."

[Distribute counting bears and ten frames]

Guided Practice:

1. Model counting technique with demonstration set
2. Show proper bear placement on ten frame
3. Practice counting aloud together
4. Give simple grouping challenges

Support Strategies:

- Provide number lines for reference
- Use partner counting for support
- Offer counting templates
- Allow use of additional manipulatives

Challenge Activities:

- Create multiple groups and compare
- Find different ways to make the same number
- Solve simple addition problems using bears

Independent Practice (Minutes 15-25)

10 minutes

"Now you're going to be number masters with your own special counting challenges!"

Station 1: Number Formation

- Practice writing numbers 1-20
- Use number formation rhymes
- Create numbers with playdough

Station 2: Counting Collections

- Sort and count various objects
- Record quantities in workbook
- Match numbers to quantities

Station 3: Number Sequences

- Complete missing number sequences
- Order number cards
- Play "What comes next?"

Observable Learning:

- Correct number formation
- Accurate counting
- Understanding of sequence
- Independent problem-solving

Guided Math Groups (Minutes 25-40)

15 minutes

Group A: Teacher-Led (Advanced)

- Addition within 20
- Number bonds exploration
- Problem-solving challenges

Group B: Partner Work (Core)

- Number matching games
- Counting practice
- Basic addition to 10

Group C: Support Group

- One-to-one correspondence
- Number recognition 1-10
- Counting with manipulatives

Interactive Number Stories (Minutes 40-50)

10 minutes

"Ten Little Numbers" Interactive Story

"Let's go on a number adventure with our story friends! Each number has a special job to do."

Story Components:

- Character cards for numbers 1-10
- Action cards for movement
- Problem-solving scenarios
- Student participation prompts

Student Involvement:

- Act out number actions
- Predict what comes next
- Create number sentences
- Solve story problems

Assessment and Reflection (Minutes 50-55)

5 minutes

Quick Check Assessment:

- Show me numbers 1-20 using fingers
- Write numbers in order
- Match quantities to numerals
- Complete missing number sequence

Student Reflection Questions:

- "What was your favorite number activity today?"
- "Which numbers do you find tricky?"
- "How can counting help us in real life?"

- "What would you like to learn more about?"

Plenary and Next Steps (Minutes 55-60)

5 minutes

Number Celebration Dance

- Count movements in sequence
- Create number shapes with bodies
- Sing counting goodbye song

Follow-up Activities:

- Number hunt homework
- Practice number writing
- Online number games
- Parent involvement suggestions

Additional Resources and Support

Digital Resources:

- Interactive whiteboard activities
- Number formation videos
- Online counting games
- Virtual manipulatives

Physical Resources:

- Number formation cards
- Counting objects sets
- Number lines and charts
- Math vocabulary cards

Support Materials:

- EAL number vocabulary cards
- Visual timetables
- Number formation guides
- Parent information sheets

Assessment Criteria and Evidence Collection

Learning Objectives Assessment:

| Objective | Evidence | Next Steps |
|---------------------------|-------------------------------|---------------------------------------|
| Count to 20 | Observation during activities | Extension to 30 or support with teens |
| Number recognition | Workbook completion | Additional practice with formation |
| One-to-one correspondence | Practical counting activities | More concrete materials if needed |
| Basic operations | Group work participation | Differentiated challenge levels |

Recording Methods:

- Photographic evidence of practical work
- Annotated work samples
- Video clips of counting
- Individual progress tracking sheets

Assessment and Closure (Minutes 55-60)

5 minutes

*"Let's review our amazing number adventure today!
Who can be our counting star?"*

Quick Assessment Points:

- Observe confident counting to 20
- Check number recognition accuracy
- Monitor one-to-one correspondence
- Note mathematical vocabulary use

Exit Activity:

Students demonstrate learning by:

- Showing a number on their fingers
- Finding that number of objects
- Saying one fact about their number

Follow-up Activities:

- Number hunt homework
- Practice counting songs
- Number writing practice
- Share success with parents