

Teacher Preparation Lesson Plan

Subject Area: Mathematics

Unit Title: Numbers and Place Value Adventure

Grade Level: Reception/Year 1 (Age 5)

Lesson Number: 1 of 8

Duration: 60 minutes **Date:** Ongoing Unit **Teacher:** Class Teacher **Room:** Primary Classroom

Curriculum Standards Alignment

Content Standards:

- · Count to and across 100, forwards and backwards
- Read and write numbers from 1 to 20 in numerals and words
- · Identify and represent numbers using objects and pictorial representations
- Use the language of: equal to, more than, less than (fewer), most, least

Skills Standards:

- Recognize place value in two-digit numbers
- Compare quantities using mathematical language
- · Use concrete materials to demonstrate understanding
- · Develop systematic counting strategies

Essential Questions & Big Ideas

Essential Questions:

- How can we represent numbers in different ways?
- Why is place value important when working with numbers?
- How do numbers help us make sense of our world?
- What patterns can we find in numbers?

Enduring Understandings:

- Numbers can be represented using different materials and symbols
- Place value helps us understand the size of numbers
- · Numbers follow patterns that help us count and calculate
- We use numbers every day in real-life situations



Pre-Lesson Preparation

Room Setup:

- · Arrange tables in groups of 4-6 for collaborative learning
- · Create a dedicated 'Number Zone' with display materials
- Set up a place value village display with tens and ones houses
- · Prepare carpet space for whole-class teaching
- Display number line and hundred square at child height

Materials Needed:

- Base-10 blocks (enough for each group)
- Place value cards (0-9 for tens and ones)
- Number formation guides and whiteboards
- Counting objects (cubes, counters, natural materials)
- · Visual timetable cards and number tracks
- · Self-checking cards and assessment materials

Technology Requirements:

- Interactive whiteboard for number demonstrations
- · Visualizer for modeling with concrete materials
- · Audio system for number songs and rhymes

Differentiation Preparation

SEN Support Materials:

- Tactile number cards with raised formations
- · Color-coded place value materials
- Visual support cards for number recognition
- Modified recording sheets with larger spaces
- Number formation guides with directional arrows
- Individual number tracks and counting resources

Extension Materials:

- Challenge cards for independent work
- Problem-solving scenarios using larger numbers
- · Investigation prompts for deeper thinking
- · Open-ended recording materials

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Detailed Lesson Flow

Introduction (10 minutes)

- · Welcome children to the 'Number Adventure'
- Share learning objectives using visual cards
- · Introduce 'Number Friends' characters
- Engage in counting warm-up song

Key Teaching Points:

- Model enthusiasm for number exploration
- · Use clear, consistent mathematical vocabulary
- · Incorporate movement in counting activities
- · Check for engagement through observation

Main Teaching (20 minutes)

- Introduce Place Value Village concept
- · Demonstrate number building with concrete materials
- · Model counting strategies using number line
- · Practice number recognition and formation

Teaching Strategies:

- Use multi-sensory approaches
- · Incorporate visual, auditory, and kinesthetic elements
- · Regular check-ins for understanding
- · Scaffold learning with structured support

Guided Practice (20 minutes)

- Small group rotations through activities:
- · Station 1: Building numbers with base-10 blocks
- Station 2: Number formation practice
- Station 3: Place value games
- Station 4: Teacher-guided intensive support



Assessment Strategies

Formative Assessment:

- · Observation checklists during activities
- · Mini-whiteboard responses for quick checks
- · Verbal responses during discussions
- · Self-assessment using traffic light cards
- · Peer assessment during partner work

Success Criteria:

- · Can count reliably to 20 and beyond
- · Recognizes numbers in different representations
- · Uses mathematical vocabulary accurately
- · Demonstrates understanding of place value

Recording Methods:

- · Digital photos of practical work
- · Annotated work samples
- · Individual progress tracking sheets
- · Group achievement records

Behavior Management Strategies

Positive Reinforcement:

- Number Explorer certificates
- Place Value Champion badges
- · Group reward system for collaboration
- · Individual progress celebration

Support Strategies:

- · Clear visual timetable
- Structured transition signals
- · Calm-down corner with number activities
- · Partner support system



Extension and Support Planning

Extension Activities:

- Independent investigations with larger numbers
- · Creating number stories and problems
- · Leading small group activities
- Extended problem-solving challenges

Support Activities:

- · Additional concrete resources
- · Simplified recording methods
- · Step-by-step task cards
- Adult-supported small groups

Home Learning Links:

- Family number games suggestions
- · Everyday counting opportunities
- Online learning resources
- · Parent information sheets

Reflection and Next Steps

Teacher Reflection Points:

- · Effectiveness of teaching strategies
- · Student engagement levels
- · Achievement of learning objectives
- · Areas for modification

Next Lesson Planning:

- Build on successful strategies
- · Address identified misconceptions
- · Incorporate student interests
- Adjust pace and challenge levels