

Subject Area: Mathematics
Unit Title: Solving Simple Subtraction Problems with Counting Blocks and Pictures
Grade Level: 5
Lesson Number: 1 of 4

Duration: 60 minutes
Date: [Insert Date]
Teacher: [Insert Teacher Name]
Room: [Insert Room Number]

Curriculum Standards Alignment

Content Standards:

- Recall the concept of subtraction as the opposite of addition
- Apply subtraction skills to solve simple problems
- Analyze and identify the difference between two numbers

Skills Standards:

- Use counting blocks and pictures to represent subtraction problems
- Create and solve simple subtraction problems

Cross-Curricular Links:

- Problem-solving
- Critical thinking

Essential Questions & Big Ideas

Essential Questions:

- What is subtraction and how does it relate to addition?
- How can we use counting blocks and pictures to solve subtraction problems?

Enduring Understandings:

- Subtraction is the opposite of addition
- Counting blocks and pictures can be used to represent and solve subtraction problems

Student Context Analysis

Class Profile:

- Total Students: 25
- ELL Students: 5
- IEP/504 Plans: 3
- Gifted: 2

Learning Styles Distribution:

- Visual: 40%
- Auditory: 30%
- Kinesthetic: 30%

Pre-Lesson Preparation

Room Setup:

- Arrange desks in pairs
- Prepare counting blocks and pictures

Technology Needs:

- None

Materials Preparation:

- Counting blocks
- Pictures

Safety Considerations:

- Ensure classroom is free from hazards

Detailed Lesson Flow

Introduction (10 minutes)

- Introduce the concept of subtraction
- Use counting blocks to demonstrate a simple subtraction problem

Counting Blocks Activity (20 minutes)

- Provide students with counting blocks and a simple subtraction problem
- Ask students to use counting blocks to solve the problem

Engagement Strategies:

- Use visual aids
- Encourage student participation

Picture Activity (20 minutes)

- Provide students with a picture of a set of objects
- Ask students to subtract a certain number of objects

Checking for Understanding:

- Use formative assessments
- Provide feedback

Word Problems (20 minutes)

- Provide students with word problems that involve subtraction
- Ask students to use counting blocks or pictures to solve the problems

Closure (10 minutes)

- Review the subtraction problems solved during the lesson
- Ask students to share their thinking and solutions

Differentiation & Support Strategies

For Struggling Learners:

- Use visual aids
- Provide extra support

For Advanced Learners:

- Provide challenging word problems
- Encourage critical thinking

ELL Support Strategies:

- Use visual aids
- Provide extra support

Social-Emotional Learning Integration:

- Encourage student participation
- Use positive reinforcement

Assessment & Feedback Plan

Formative Assessment Strategies:

- Use quizzes
- Provide feedback

Success Criteria:

- Students can recall the concept of subtraction
- Students can apply subtraction skills to solve simple problems

Feedback Methods:

- Verbal feedback
- Written feedback

Homework & Extension Activities

Homework Assignment:

Practice solving simple subtraction problems using counting blocks and pictures

Extension Activities:

- Create a word problem involving subtraction
- Solve a subtraction problem using a different method

Parent/Guardian Connection:

Encourage parents to practice subtraction with their child

Teacher Reflection Space

Pre-Lesson Reflection:

- What challenges do I anticipate?
- Which students might need extra support?

Post-Lesson Reflection:

- What went well?
- What would I change?

Introduction to Subtraction

Introduction:

Welcome to our math lesson on solving simple subtraction problems with counting blocks and pictures! This lesson is designed for 5-year-old students in the UK Primary School Curriculum.

Lesson Objectives

Lesson Objectives:

- Recall the concept of subtraction as the opposite of addition
- Apply subtraction skills to solve simple problems
- Analyze and identify the difference between two numbers

Counting Blocks Activity

Activity:

Provide students with a set of counting blocks and a simple subtraction problem. Ask students to use the counting blocks to solve the problem and record their answer.

Foundation, Core, and Extension

Foundation:

- Use counting blocks to demonstrate simple subtraction problems

Core:

- Use a combination of counting blocks and pictures to demonstrate simple subtraction problems

Extension:

- Ask students to create their own word problems involving subtraction

Picture Activity

Activity:

Provide students with a picture of a set of objects and ask them to subtract a certain number of objects. Ask students to draw a picture to represent the answer.

Foundation, Core, and Extension

Foundation:

- Use pictures to solve simple subtraction problems

Core:

- Use a combination of counting blocks and pictures to solve simple subtraction problems

Extension:

- Ask students to create their own picture problems involving subtraction

Word Problems

Activity:

Provide students with word problems that involve subtraction. Ask students to use counting blocks or pictures to solve the problems and record their answers.

Foundation, Core, and Extension

Foundation:

- Use counting blocks to solve simple word problems

Core:

- Use a combination of counting blocks and pictures to solve simple word problems

Extension:

- Ask students to create their own word problems involving subtraction

Games and Activities

Activity:

Provide students with games and activities that involve subtraction, such as "Subtraction Bingo" or "Subtraction War". Ask students to play the games and activities in pairs or small groups.

Foundation, Core, and Extension

Foundation:

- Use simple games and activities

Core:

- Use more complex games and activities

Extension:

- Ask students to create their own games or activities involving subtraction

Assessment

Assessment:

Provide students with a simple subtraction quiz to assess their understanding of the concept. Ask students to use counting blocks or pictures to solve the problems and record their answers.

Foundation, Core, and Extension

Foundation:

- Use simple subtraction problems

Core:

- Use more complex subtraction problems

Extension:

- Ask students to create their own subtraction problems

Conclusion

Conclusion:

Review the subtraction problems solved during the lesson and ask students to share their thinking and solutions. Use counting blocks and pictures to demonstrate the problems and provide feedback.

Additional Resources

Additional Resources:

- Counting blocks
- Pictures
- Word problems
- Games and activities