

Lesson Plan

Addition up to 10 - Add up to 10

Kindergarten (K) - Math

LEARNING TARGET

- Fluently add within 10 using only mental strategies.
- Identify and explain their mental strategies for adding within 10.
- Apply mental strategies for adding within 10 to solve word problems.

LEARNING PROGRESSION

PREREQUISITE SKILL

No Prerequisite Skills

EXTENSION SKILL

No Extension Skills

DURATION

- Introduction (5 minutes)
- Instruction (15 minutes)
- Guided Practice (15 minutes)
- Independent Practice (15 minutes)
- Exit Card Formative Assessment (5 minutes)
- Closure (5 minutes)

MATERIALS

- Counters (e.g. cubes, bears, buttons)
- Whiteboard and marker

VOCABULARY

- Add
- Plus
- Equals
- Total
- Number sentence
- Count
- Set

INTRODUCTION

1. Review the concept of addition with the students.
2. Ask the students to tell you what they know about addition.
3. Introduce the concept of fluently adding within 10 using mental strategies.
4. Display flashcards for numbers 1-10 and ask the students to say the number that comes after a given number.

INSTRUCTION

1. Introduce and explain the mental strategies for adding within 10:
 - Counting on: Start with the larger number and count up to the sum.
 - Doubles: If you know the doubles facts (e.g., $2+2=4$), you can use them to solve addition problems (e.g., $3+3=6$).
 - Near doubles: If you know a doubles fact and the number that is one more or one less than the other addend, you can use it to solve the problem (e.g., $3+4=7$, because $3+3=6$ and $6+1=7$).
2. Model how to use each strategy to solve addition problems within 10.
3. Practice using each strategy with the class, using math manipulatives.

GUIDED PRACTICE

1. Divide the class into small groups and give each group a set of addition problems.
2. Have the students work together to solve the problems using the mental strategies they learned.
3. Circulate around the room to provide support and guidance as needed.

INDEPENDENT PRACTICE

1. Have the students complete a worksheet with word problems that require them to use mental strategies to add within 10.
2. Encourage the students to use the mental strategies they learned during the lesson.
3. Monitor the students' progress and provide support as needed.

HOMEWORK

1. Provide students with a worksheet that contains addition problems within 10.
2. Instruct students to use mental strategies to solve the problems.
3. Encourage students to explain their mental strategies and how they arrived at their answers.
4. For extra practice, students can create their own addition problems within 10 and solve them using mental strategies.

EXIT TICKET

1. Provide each student with a whiteboard and marker.
2. Instruct students to write an addition problem within 10 and solve it using a mental strategy.
3. Collect the exit cards and review them to determine if the students have met the lesson objective.

SUMMATIVE

1. Formative assessments will be conducted during the lesson to monitor students' understanding of mental strategies for adding within 10.
2. The exit card and progress monitoring assessments will be used to determine students' mastery of the lesson objective.

CLOSING

1. Review the mental strategies for adding within 10.
2. Ask students to share which mental strategy they found most helpful and why.
3. Encourage the students to continue practicing mental strategies.

TEACHING TIPS

1. Encourage students to explain their mental strategies and how they arrived at their answers.
2. Use visual aids, such as ten frames and number lines, to help students understand the concept of addition.
3. Provide frequent opportunities for students to practice mental strategies, both individually and in small groups.

MISCONCEPTIONS

1. Counting all fingers/toes or objects instead of using mental strategies
2. Forgetting to start with the larger number when using the counting-on strategy
3. Assuming that doubles always have the same sum (e.g., $5+5=10$, but $6+6$ is not equal to 10)

EXTENSION

1. Students can practice adding within 20 using mental strategies.
2. Students can create their own addition problems and solve them using mental strategies.
3. Students can practice adding within 10 using timed challenges to increase fluency.

INTERVENTION

1. For students who struggle with fine motor skills, provide larger math manipulatives that are easier to manipulate.
2. For students who need extra support, provide additional examples and practice problems that build on each mental strategy.
3. For students who need more challenge, provide more complex word problems that require multiple mental strategies to solve.

COMMON CORE STANDARD

K.OA.A.5 - Fluently add and subtract within 5.

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