

Lesson Plan

Subtraction strategies - Counting on to 10

First (1) - Math

LEARNING TARGET

- Students will be able to understand the concept of subtraction.
- Students will be able to use number lines to solve subtraction sentences by counting back with numbers up to 10.
- Students will be able to apply the concept of counting back to solve subtraction problems.

LEARNING PROGRESSION

PREREQUISITE SKILL

Subtraction strategies - Counting back within 20

EXTENSION SKILL

Subtraction strategies - Counting on to 20

DURATION

45 minutes

MATERIALS

- Whiteboard and markers
- Number line chart (up to 10)
- Manipulatives (such as counters or cubes)
- Subtraction worksheet pack

VOCABULARY

- Subtract
- Take away
- Difference
- Number line
- Counting on

INTRODUCTION

1. Begin the lesson by asking students what they know about subtraction and its symbol, the minus sign (-).
2. Review the concept of subtraction and explain that they will be learning how to use number lines to solve subtraction sentences.
3. Display the number line chart and explain that they will be using this to help them count back to solve subtraction problems.

INSTRUCTION

1. Demonstrate to the students how to use a number line to solve a subtraction sentence. Start with a problem like $8 - 3 = \underline{\quad}$.
2. Show how to start at the number 3 on the number line and count on 5 spaces to the right, landing on the number 8. Write the subtraction sentence $8 - 3 = 5$ on the board.
3. Explain to students that they can use this method to solve any subtraction sentence with numbers up to 10.
4. Introduce the concept of counting on to solve subtraction problems by demonstrating that they can start with the number being subtracted and count on the number of spaces they need to get to the number being subtracted from. For example, for the problem $9 - 4$, they can start with the number 4 and count on 5 spaces to get to the number 9.
5. Provide additional examples and have students practice using number lines to solve subtraction sentences by counting on.

GUIDED PRACTICE

1. Provide students with a subtraction worksheet containing problems that use numbers up to 10.
2. Work through the problems together as a class, demonstrating how to use a number line to count on and solve the problems.
3. Encourage students to write the subtraction sentences for each problem on their worksheet.

INDEPENDENT PRACTICE

1. Provide students with another subtraction worksheet to complete independently.
2. Encourage students to use number lines to help them solve the problems.
3. Circulate around the room to provide individual support and guidance as needed.

HOMEWORK

1. Provide students with a few subtraction problems to solve using number lines as homework.

EXIT TICKET

1. To assess students' understanding of using number lines to solve subtraction problems, provide each student with an exit ticket that contains four subtraction sentences and four corresponding number lines.
2. Instruct students to solve each subtraction sentence and draw a corresponding model on the number line provided.
3. Collect the exit tickets to quickly assess students' understanding of the concept and identify any areas that may require further instruction or support.

SUMMATIVE

1. To assess students' understanding of using number lines to solve subtraction problems, provide each student with an assessment sheet that contains several subtraction sentences and blank number lines.
2. Instruct students to solve each subtraction sentence and draw a corresponding model on the number line provided.
3. Collect the assessment sheets to evaluate students' understanding of the concept and identify any areas that may require further instruction or support.

CLOSING

1. Recap with the class what they learned in the lesson about using number lines to solve subtraction problems by counting on with numbers up to 10.
2. Encourage students to reflect on how they can apply these strategies in future math lessons and in everyday situations.
3. Provide positive reinforcement to the class for their hard work and progress throughout the lesson.

TEACHING TIPS

- Provide visual aids, such as posters or anchor charts, to help students understand the concept of counting on and using number lines to solve subtraction problems.
- Use manipulatives to help students build a concrete understanding of the concept.
- Use real-world examples to make the lesson more engaging and relevant to students' lives.

MISCONCEPTIONS

- Students may initially think that subtraction always involves taking away from a larger number.
- Students may struggle with counting on from the smaller number to find the difference.
- Students may have difficulty grasping the concept of using a number line to count on and solve subtraction problems.

EXTENSION

1. For students who have mastered subtracting numbers up to 10, provide them with more challenging subtraction problems that involve regrouping or borrowing.
2. Students can practice subtracting three or more numbers using number lines and counting on.
3. Students can create their own subtraction problems using number lines and exchange them with a partner to solve.

INTERVENTION

1. For students who struggle with fine motor skills or have difficulty manipulating the manipulatives, provide them with larger or easier-to-grasp manipulatives.
2. For students who need extra support, provide them with additional practice problems and one-on-one guidance during independent practice.
3. For students who need additional reinforcement, provide them with visual aids, such as posters or anchor charts, that illustrate the concept of counting on and using number lines to solve subtraction problems.

COMMON CORE STANDARD

1.OA.C.5 - Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).

Terms of Use

Thank you for purchasing our digital download teaching resources. Before using these materials, please review the following information:

Permitted Use: You are granted a non-exclusive, non-transferable, revocable license to use these materials only for personal or classroom use. You may print and make copies of these materials for use in your classroom or for your personal use. You may also share digital copies with your students or colleagues for instructional purposes only.

Prohibited Use: You are not authorized to give, sell, or distribute these materials to others or post them on any public forum or website. You may not modify or create derivative works based on these materials. You may not use these materials for commercial purposes or financial gain, including but not limited to selling, renting, or licensing the materials. You may not remove or alter any copyright notices, trademarks, or other proprietary rights in these materials.

Intellectual Property: All materials are protected by intellectual property laws, including but not limited to copyright and trademark laws. The content and design of these materials are the property of TeachTastic LLC. Any unauthorized use or reproduction of these materials is strictly prohibited.

Disclaimer: These materials are provided “as is” without warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. TeachTastic LLC does not guarantee that the materials will meet your requirements or be error-free.

Limitation of Liability: In no event shall TeachTastic LLC be liable for any direct, indirect, incidental, special, or consequential damages arising out of or in connection with the use or inability to use these materials, even if TeachTastic LLC has been advised of the possibility of such damages.

Contact Us: If you have any questions or concerns regarding this or any other TeachTastic LLC product, please contact us at webmaster@teachtasticiep.com before leaving feedback.

By purchasing and using these digital download teaching resources, you agree to abide by these terms.