

Differentiated Learning

Grade Level: 1st

Topic: 10- Adding with Tens and Ones

Domain Covered:

Number and Operations in Base Ten

Clusters: (write out in words)

Use place value understanding and properties of operations to add and subtract.

Content Standards: (write out in words)

1.NTB.4 Add within 100 including adding a two digit number and a one digit number and adding a two digit number and a multiple of ten, using concrete models or drawings and strategies based on place value, properties of operations and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.

1.NTB.5 Given a two digit number, mentally find ten more or ten less, then the number, without having to count; explain the reasoning used.

Learning Targets for this Unit

***Found in teacher's manual under objectives for each topic lesson**

10-1 Children will add two multiples of ten for sums to 100.

10-2 Children will use a hundreds chart to add multiples of ten to two digit numbers.

10-3 Children will add a multiple to ten to a two digit number.

10-4 Children will add two digit numbers and multiples of ten mentally.

10-5 Children will add one digit numbers to two digit numbers with and without regrouping and record the sum in horizontal form.

10-6 Children will solve problems by drawing pictures and writing number sentences.

Practice Standards: (Delete the practices that will NOT be used)

- **Make sense of problems and persevere in solving them.**
- **Reason abstractly and quantitatively.**
- **Construct viable arguments and critique the reasoning of others.**
- **Model with mathematics.**
- **Use appropriate tools strategically.**
- **Attend to precision.**
- **Look for and make use of structure.**
- **Look for and express regularity in repeated reasoning**

Differentiated Activities

Directions: Use your Teacher Manual for your assigned Topic to complete this page and create student materials

Advanced/Gifted:

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Quick Synopsis of Activity & Materials Needed-

Children may apply their understanding of addition to solve two-digit addition problems with three addends without regrouping. Such as $32 + 21 + 44$. Extend: Use skinnies & bits to illustrate the problem and to show how students combine the three numbers together. You can turn this into a game where students use dice or cards (6) to create their three two digit addends.

Materials: Base ten blocks, cards or dice, and reusable writing materials to record number sentences.

*Students could make their sentences into story problems to record in the addition story book suggested below.

Math Project

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Quick Synopsis of Activity & Materials Needed-

Give each child an index card to draw simple object such as a piece of fruit. Then have children choose a two digit number from 11-89, next add 10 to that number. Instruct students to write that number sentence below the picture they have drawn. Then create a story relating their object to the number sentence. Extend: Students may create or draw more than one object. They could use two digit numbers not just involving ten to increase the difficulty. This could be turned into an addition story book project where students create multiple story problems with illustrations and related number sentence.

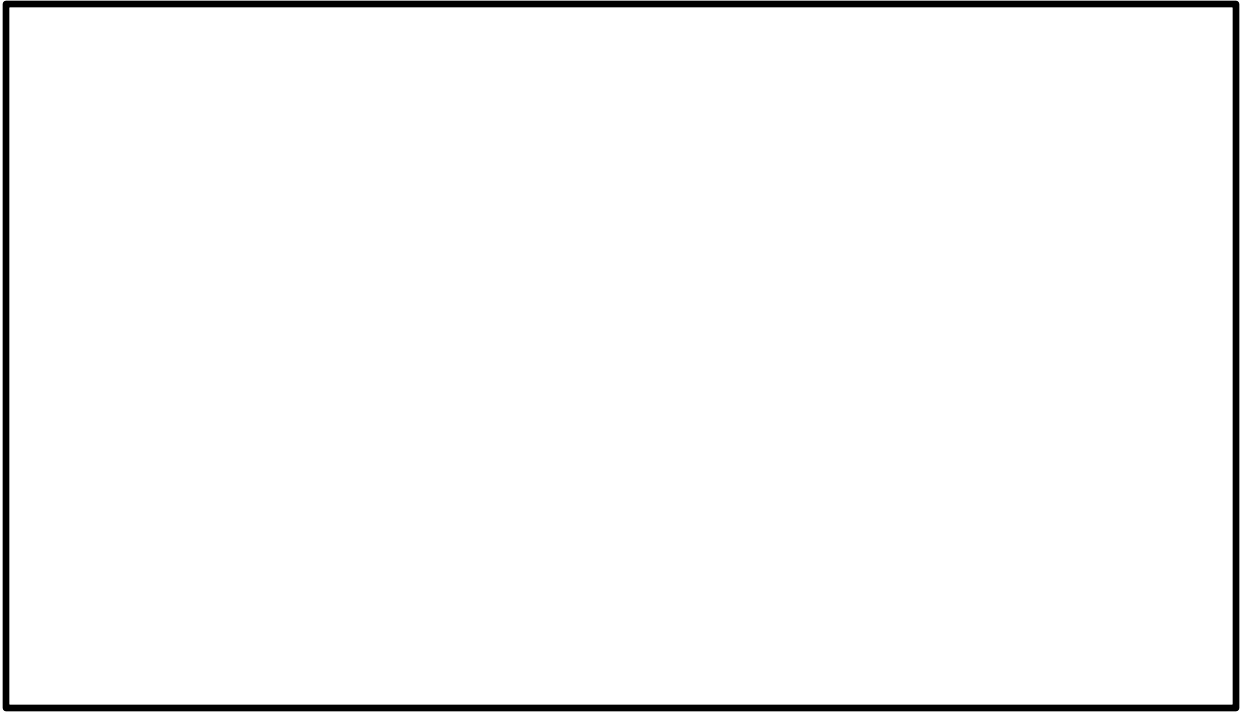
Materials: Index cards, crayons, pencil.

*Create journal or book to use specifically for addition story problems. You could create a journal or book that combines both addition and subtraction story problems--like the book attached to this activity.

Math and Literature: N/A for this topic

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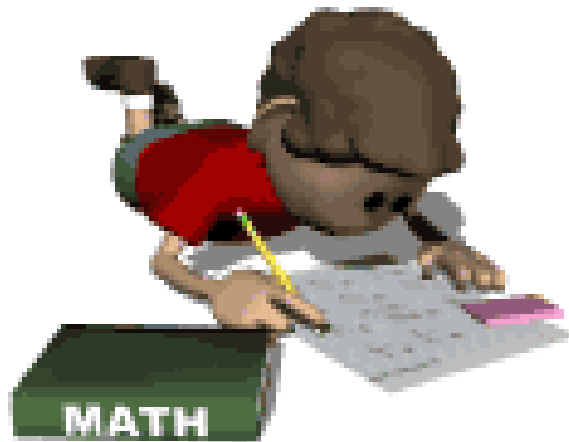
Quick Synopsis of Activity & Materials Needed-



My story problem:

My number sentence is:

My
Addition & Subtraction
Story Book



By:
