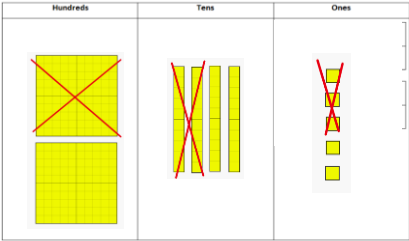

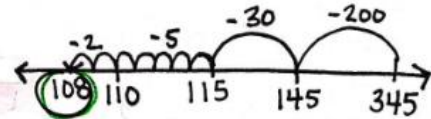
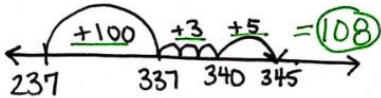
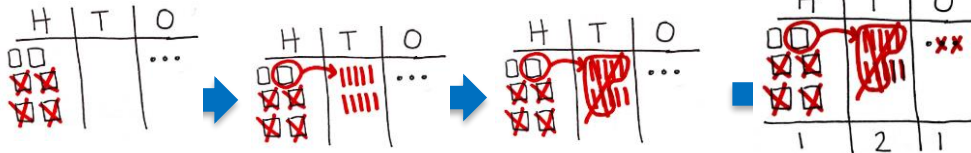


## Extending Subtraction Within 1000

<p style="text-align: center;"><b>Overarching Student Learning Goals</b></p> <p style="text-align: center;">In this unit, your child will work to build an understanding of the following:</p>	<p style="text-align: center;"><b>Resources/Tasks to support your child at home.</b></p>
<p><b>Using varied strategies, based on place value, to visualize subtraction.</b></p> <p style="text-align: center;">Solve. <math>245 - 123</math></p> <p style="text-align: center;"><u>Subtracting with base ten blocks:</u></p> <div style="text-align: center;">  </div> <p><u>Subtracting with quick pictures:</u></p> <div style="text-align: center;">  <p style="color: red;">Subtract 1 hundred Subtract 2 tens Subtract 3 ones</p> <p>122 left</p> </div> <p><u>Subtracting using expanded form:</u></p> <div style="text-align: center;"> <math display="block">\begin{array}{r} 200 + 40 + 5 \\ - 100 + 20 + 3 \\ \hline 100 + 20 + 2 \\ \textcircled{122} \end{array}</math> </div> <p><i>"2 hundreds take away 1 hundred is 1 hundred, 4 tens take away 2 tens is 2 tens, and 5 ones take away 3 ones is 2 ones...so the difference is 1 hundred, 2 tens, and 2 ones, 122!~"</i></p> <p><u>Subtracting with an open number line:</u></p> <p style="text-align: center;">Solve. <math>345 - 237</math></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>"Think addition" strategy</p>  </div> </div>	<ul style="list-style-type: none"> <li>• Kahn Academy Video: Subtracting 3- Digit Numbers with Regrouping <a href="https://tinyurl.com/zpuavjz">https://tinyurl.com/zpuavjz</a></li> <li>• Video: Subtract Within 1000 Using Base-Ten Blocks <a href="https://tinyurl.com/y8gob2me">https://tinyurl.com/y8gob2me</a></li> <li>• Cut out paper base ten blocks. Have your child use the tools to model subtraction problems. Encourage your child to record their work using quick pictures and/or open number lines.</li> <li>• Task: Rebecca earned 275 coins for completing her i-Ready lessons. Jackie earning 615 coins for completing her i-Ready lessons. How many more coins did Jackie earn than Rebecca?</li> </ul>

**Identifying and understanding when regrouping (trading) is necessary in subtraction.**  
Solve. 603-482

## Quick Picture (Stick &amp; Dots)



"Take away 4 hundreds from 6 hundreds is 2 hundreds. There are no tens to take away 8 tens, so I have to regroup 1 hundred into 10 tens. Now I can take 8 tens from 10 tens which is 2 tens, and 3 ones take away 2 ones is 1 one. The difference is 1 hundred, 2 tens, and 1 one, 121!"

- Before your child solves a subtraction equation, ask them to pause and think if they will have to use regrouping (or trading). Ask them to explain why or why not?
- Kahn Academy Video: Subtracting 3-Digit Numbers (Regrouping Twice) <https://tinyurl.com/mgev5zl>
- Create 3- digit addition and subtraction equations for your child to solve using virtual base ten blocks (<https://tinyurl.com/ydyjvq3m>) or an open number line. Ask them to use math vocabulary to explain each step.
- Task: There are 245 students at Washington Elementary. 165 students walk to school and the rest ride a bus. How many students ride a bus to school?

**Using models based on place value understanding to regroup (trade) when subtracting.**

Gavin had 234 LEGOs. He used 126 of the LEGOs to make a building.  
How many LEGOs were not used?

$$\begin{array}{r}
 - \quad 2 \text{ hundreds} + 3 \text{ tens} + 4 \text{ ones} \\
 \quad 1 \text{ hundred} + 2 \text{ tens} + 6 \text{ ones} \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 - \quad 2 \text{ hundreds} + \cancel{3} \text{ tens} + \overset{14}{4} \text{ ones} \\
 \quad 1 \text{ hundred} + 2 \text{ tens} + 6 \text{ ones} \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 - \quad 2 \text{ hundreds} + \overset{2}{\cancel{3}} \text{ tens} + \overset{14}{4} \text{ ones} \\
 \quad 1 \text{ hundred} + 2 \text{ tens} + 6 \text{ ones} \\
 \hline
 \quad 1 \text{ hundred} + 0 \text{ tens} + 8 \text{ ones} \\
 \quad \quad \quad (108)
 \end{array}$$

Think: He started with 234 LEGOs. You can record the digits by their place value.

Think: I need to regroup before I can subtract because I can't take 6 ones away if I only have 4 ones.

Think: Now I have 14 ones, so I take away 6 and there are 8 ones left. I take away 2 tens and there are no tens left. I take away 1 hundred. The difference is 108!

- Kahn Academy Video: Subtracting 3-Digit Numbers (Regrouping Twice) <https://tinyurl.com/mgev5zl>
- Kahn Academy Practice: Add and Subtract Using a Number Line <https://tinyurl.com/y8e7kywy>
- Task: Solve 564-319. Explain how you could use expanded form to find the difference.
- Task: Use a strategy to solve 700-599. Use place value vocabulary to explain your strategy.