

Assessment Task: Incrementing by Tens and Ones

Materials:

- Stack of bundling sticks - approximately 10 bundles and 20 single sticks in a pile.
- Screen

Establish that a bundle always has 10 sticks. Allow students to count to verify 10 in each bundle If necessary.

Task	Consideration
<p><u>Adding Tens and Ones within the Decade</u></p> <p>Ask student to get 40 sticks. Place one bundle beside the screen. Ask: How many sticks are there? Slide the bundle under the screen. Place another bundle beside the screen. Ask: Now how many sticks are there? Slide the bundle under the screen. Place four single sticks beside the screen. Ask: How many sticks are there now? Slide the sticks under the screen. Place another bundle beside the screen. Ask: Now how many sticks are there?</p> <div data-bbox="323 842 631 1064" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;"><i>Get me 40 sticks.</i></p> <hr style="width: 80%; margin: 5px auto;"/> <p style="text-align: center;"><i>10 → 20 → 24 → 34</i> <i>(1B → 1B → 4S → 1B)</i> <i>(B: bundle S: stick)</i></p> </div>	<p>The purpose of the assessment task is to understand if student is able to flexibly move between tens and ones.</p> <p>Does student select 4 bundles or count out 40 singles?</p> <p>Does student understand the bundle as a unit of ten and add (increment) while keeping the tens bundle intact?</p>
<p><u>Adding Tens and Ones Across the Decade</u></p> <p>Ask student to get 40 sticks. Place one bundle beside the screen. Ask: How many sticks are there? Slide the bundle under the screen. Place two more bundles under the screen. Ask: Now how many sticks are there? Slide the bundles under the screen. Place four single sticks beside the screen. Ask: How many sticks are there now? Slide the sticks under the screen. Place another bundle and three singles beside the screen. Ask: Now how many sticks are there? Slide the bundles and sticks under the screen. Place another bundle and five singles beside the screen. Ask: How many sticks are there now?</p> <div data-bbox="245 1675 618 1890" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;"><i>Get me 40 sticks.</i></p> <hr style="width: 80%; margin: 5px auto;"/> <p style="text-align: center;"><i>10 → 30 → 34 → 47 → 62</i> <i>1B → 2B → 4S → 1B 3S → 1B 5S</i> <i>(B: bundle S: stick)</i></p> </div>	<p>The purpose of the assessment task is to understand if student is able to flexibly move across a decade when the added ones make another ten.</p> <p>We are also looking to see the strategies that students has to add across the decade. Does student count by ones or are they able to use place value understanding such as a jump or split strategy.</p>