

ACTIVITY IA3.8: Numeral Roll with Window or Multi-lid Screen

Intended learning: To build facility with forward and backward number word sequences.

Instructional mode: Shorter, rehearsal mode for individuals or small groups.

- ⑧ **Materials:** Numeral roll for selected sequence, and multi-lid screen or numeral roll window (see Appendix).

Description: The teaching procedure involves: (1) presenting the numeral roll without any screens and having the student(s) identify patterns, say the numbers in a section of the sequence while pointing to each numeral as the corresponding number is said; (2) positioning the multi-lid screen over the section of the roll of interest and opening each lid in order to reveal each numeral in the sequence as the student says each number (see then say); (3) closing each lid after the number is stated; (4) pointing to the lid to prompt for the number and then opening the lid to confirm the response (say then see); (5) selecting any lid on the track to open and then asking the student to supply either the number just before, just after, two after, or two before the revealed numeral.

Responses, variations and extensions:

- Sequences by 1s, 10s, 100s; 5s, 2s, 3s, 4s all work well with the numeral roll and multi-lid screen. Sequences might begin with any number.
- This device can be used in a similar manner as the numeral track (Wright et al., 2006c). The advantage of the numeral roll is that it easily accommodates longer sequences.
- The numeral roll may also be used with a single-window screen with which the teacher can isolate a section of the roll while revealing a single numeral. This is particularly useful with focusing solely on the number immediately before or immediately after a given number.
- Students typically struggle with hurdling the decuple and centuple.
- Students frequently reveal a lack of knowledge of the patterns of the system of number names.
- Examples of common student difficulties are given in Tables 3.1, 3.2 and 3.3.



Photo 3.4 Using the numeral roll with a window