<u>Diagnostic</u> TASK

FOCUS

Understanding Units

Key Understanding 3

Key Understanding 4

Direct Measure

- Key Understanding 2
- Key Understanding 3

Desk through the Doorway

K–Year 5

Purpose

To reveal if the student:

- counts units of length to say 'how many fit'
- chooses to use units to compare lengths
- chooses appropriate units to compare lengths
- can use units without gaps and overlap
- recognises and uses part units.

Materials

Desk, or table some distance from a doorway

A variety of objects which students can choose to use as units, e.g. felt-tipped pens, pop sticks, matchsticks, paperclips, blocks, marbles, beads etc.

Teacher Recording Sheet

Procedure

Sit with a student at a desk or table that is a similar width to, but a few metres away from, a doorway, and ask:

- How many pens do you think will fit across the table? If necessary, prompt by saying, Could you use the pens to check?
- How wide is the table?

Observe and record what the students say and do:

- Are they careful to avoid gaps and overlaps?
- Do they only fit whole pens, or do they consider part pens as well?

Then ask:

- If I wanted to push or slide this table out the door, do you think it would fit?
- Could you use something on the table to check? (indicate the pens and the range of other objects)

Observe and record what the students say and do. Do they:

- only consider a direct comparison or non-numerical indirect comparison
- use the pen measurement to say whether the desk will fit through the doorway
- use a different unit for each measurement
- choose a unit that has length
- consider gaps and overlaps
- measure the appropriate part of the doorway
- use fractional numbers for part units.



Desk through the Doorway: Teacher Recording Sheet

 Name
 Date

1.	How many pens do you think will fit across the table? If necessary, prompt
	with, Could you use the pens to check?

2. How wide is the desk?

3. If I wanted to push this table out the door, do you think it would fit? How could you check? If the student's response is direct comparison, ask, Is there something else we could use to work it out?

