

Master Ordering Lengths

Rationale

In this step, pupils draw on their understanding of comparing lengths and heights to order lengths and heights.

Pupils will determine the shortest and longest lengths, given in centimetres and metres, and order lengths from shortest to longest and longest to shortest. They will also determine the tallest and shortest height and order heights from shortest to tallest and tallest to shortest.

Pupils will develop their learning by writing missing digits to make ordering correct.



Key Stem Sentences

- ___ is the shortest / longest / tallest.
- ___cm / m is longer than / taller than / shorter than / ___cm / m.



Key Vocabulary

- order
- shorter / taller / longer
- shortest / longest / tallest



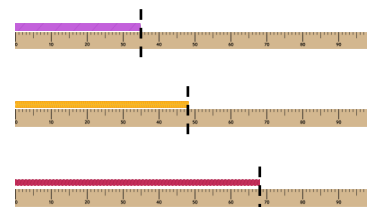
Common Errors or Misconceptions

- Pupils may use the vocabulary incorrectly when ordering.
- Pupils may confuse tallest with biggest, for example identifying an object as the tallest when it is the widest, but not the tallest.



Key Representations

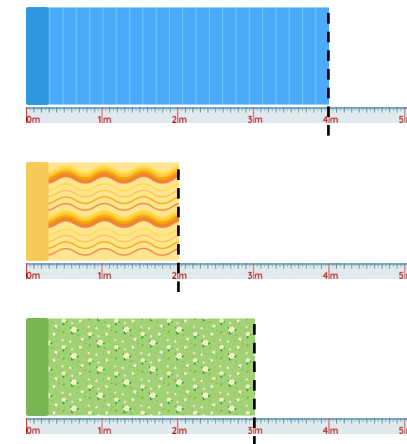
Metre stick



The length of the art straw is 35cm. The length of the pipe cleaner is 41cm. The length of the wool is 68cm.

35cm is shorter than 41cm and 68cm. 41cm is shorter than 68cm.

Tape measure



The length of the blue fabric is 4m. The length of the orange fabric is 2m. The length of the green fabric is 3m.

4m is longer than 2m and 3m. 3m is longer than 2m.

The blue fabric is the longest. The orange fabric is the shortest.



Pupils will FLOURISH if they can...

- identify the tallest / longest / shortest length or height.
- order lengths or heights from the shortest to the longest / tallest or from the longest / tallest to the shortest.
- complete missing digits to make the ordering correct.
- explaining their understanding using written sentences and mathematical proof.

