



Didactical Document Theme-Based Trail on Measuring (Length, height and area)

Trail Codes: 246706

Title	Grade	Main concepts	Students learn	Data to collect	Objects	MCM References
Short straight measurements	4	Measure the length of a cuboid's sides in cm.	Basics of measuring with a folding ruler, sense of scale and work with units.	Length, width and height of a cuboid.	Stone, bench	1231848
Long straight measurements	4	Measure a straight length in m.	Basics of measuring with a measuring tape, sense of scale and work with units.	Length of a line.	Wall, street, side walk, coloured line, building	4731849 5831859
Circular measurement	4	Measure a circumference.	Basics of measuring with a measuring tape, sense of scale, mental operations and work with units.	Circumference of a circular object.	Tree, column	2931850 1431857
Determination of a not directly measurable height <i>(easy, middle and hard version available)</i>	4	Measure a (big) height by identifying patterns.	Basics of measuring with a folding ruler, recognize patterns, sense of scale and work with units.	Height of a regular pattern and number of regular patterns.	Building, bridge, church	2631851
Determination of an additive height	4	Measure a height by adding several smaller units.	Basics of measuring with a folding ruler, recognize patterns, sense of scale and work with units.	Height of a regular pattern and number of regular patterns.	Stairs	2331855

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Determination of rectangular area	6	Measure a rectangular area.	Connection of sides and area, basics of measuring with a folding ruler and work with units.	Area of a rectangular object by measuring its length and height.	Poster, sign	3431858
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The teacher should propose a trail with 7-8 tasks containing diversified concepts (subitizing, combinatorial counting, repetition pattern, growth pattern). It is also important to present tasks with different cognitive levels (low; high) to motivate/challenge students.