

Activity 1 Assessment

Estimating and Measuring in Millimetres

Investigating Length

Identifies which metric unit (mm, cm, or m) should be used to measure the length of an object.

A cm is the width of my finger. The thickness of a nickel is much less than 1 cm, so I would use millimetres to measure it."

Uses benchmarks to estimate and measure length using metric units.

"The paper clip is a little more than two fingertips long, so I estimate its length to be about 2 cm. I measured to check. It was about 2.5 cm long."

Chooses an appropriate metric unit to estimate and measure lengths of objects and explains reasoning.

A kangaroo can jump 750 cm in one leap.

"To measure the length of the kangaroo's jump, I would use metres because I can picture the length being between 7 and 8 metre sticks long."

Observations/Documentation

Activity 1 Assessment

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Investigating Length (cont'd)		
<p>Explains the relationships among mm, cm, m, and km and converts length measures.</p> <p>A kangaroo can jump 750 cm in one leap.</p> <p>“100 cm = 1 m; $750 \div 100 = 7.5$, so 750 cm = 7.5 m; 1 cm = 10 mm; $750 \times 10 = 7500$, so 750 cm = 7500 mm.</p> <p>I would give the length of the jump in metres as it is more reasonable.”</p>	<p>Compares and orders lengths when measures are given in different units.</p> <p>Lengths of jumps of different animals: Rabbit: 3000 mm Red Kangaroo: 12.2 m Chipmunk: 690 cm</p> <p>“I would convert the lengths to metres: $3000 \text{ mm} = 3 \text{ m}$ and $690 \text{ cm} = 6.9 \text{ m}$. The animals ordered from longest to shortest jump: rabbit, 3 m; chipmunk, 6.9 m; red kangaroo, 12.2 m.”</p>	<p>Flexibly uses the relationships among metric units to estimate, measure, and solve problems involving length.</p> <p>Dakota buys a spool of 200 m of fishing line. Dakota uses 950 cm of the line. How much line is left on the spool?</p> <p>“I convert 950 cm to metres. $1 \text{ m} = 100 \text{ cm}$ and $950 \div 100 = 9.5$. Dakota used 9.5 m of fishing line. So, there is $200 \text{ m} - 9.5 \text{ m} = 190.5 \text{ m}$ of line left on the spool.”</p>
Observations/Documentation		