

5th Grade Maths Lesson Plan — Chapter 5: Far and Near

School Name: _____ Teacher: _____

From Date: _____ To Date: _____

Learning Outcomes :

- Convert structural metric distance formats easily (mm <-> cm <-> m <-> km).
- Execute compound multidimensional linear additions and subtractions across combined unit arrays.
- Apply estimation skills to real-world objects using regional units like feet and inches.

Stage	Learning Goals	What the Teacher Does	What the Students Do	Tools & Materials	Sign
Engage (Get Interested)	Awaken distance tracking curiosity using scale changes.	Ask students to look at a standard ruler and count the tiny sub-marks located between 1 cm and 2 cm.	Discover that 1 cm is divided into 10 equal parts, naming each small line 1 millimetre (mm).	Metric scale rulers, magnifying lenses.	
Explore (Look & Find)	Track proportional conversions visually using double number lines.	Map a parallel scale line showing 10 mm = 1 cm, 100 cm = 1 m, and 1,000 m = 1 km. Ask students to fill in missing points.	Work out conversions along the dual horizontal vectors (e.g., tracking how 15 cm shifts into 150 mm).	Double number line worksheet layouts.	
Explain (Learn & Understand)	Formalize operational routines for multi-unit column calculation.	Detail compound arithmetic rules for adding or subtracting mixed dimensions (m and cm, or cm and mm) with regrouping.	Practice alignment structures separating integers safely into split metrics (e.g., solving 4 cm 5 mm = 45 mm).	Sectioned multi-unit conversion keys.	
Elaborate (Think Deeper)	Connect linear measurement math to macro real-world scenarios.	Present a manufacturing context: A school needs 1 m 80 cm of cloth to make a shirt for a child. Ask how much is needed for 20 children.	Calculate total required lengths by scaling up individual multi-unit requirements systematically (1 m 80 cm x 20).	Textile scaling tracking worksheets.	
Evaluate (Check Progress)	Check operational precision during multi-unit distance tasks.	Assign mixed conversion and difference calculation tasks (e.g., finding the difference between 26 mm and 2 cm).	Circle the larger length format, align values to a common unit scale, and calculate the exact difference.	Final spatial calculation check sheets.	