Hardin County Schools Combined Curriculum Guide
Mathematics -- Fifth Grade – Measurement
DRAFT

Big Idea	**MEASUREMENT**		
Academic Expectations	**2.10** Students understand measurement concepts and use measurements appropriately and accurately. **2.11** Students understand mathematical change concepts and use them appropriately and accurately.		
POS Understandings	**MA-5-M-U-1** Students will understand that there are two major measurement systems (U.S. Customary and metric) and either may be used to solve problems.	**9 Weeks Taught**	**1 2 3 4**

POS Skills & Concepts	**Date(s) Taught**	**Core Content for Assessment**	**Objective**	**Essential Vocabulary**
MA-5-M-S-MPA3 Students will apply standard units of measure to length, weight, temperature and liquid capacity. **MA-5-M-S-MPA8** Students will solve problems involving money. **MA-5-M-S-SM1** Students will relate and convert units (e.g., linear, volume, weight) within a measurement system (e.g., 125 cm = 1m 25 cm). **MA-5-M-S-SM2** Students will convert units within the U.S. monetary system. **MA-5-M-S-SM3** Students will convert units of time and determine elapsed time. **MA-5-M-S-SM4** Students will describe, define, give examples of and use to solve real-world and/or mathematical problems both nonstandard and standard (U.S. Customary, metric) units of measurement to include length, time, money, temperature (°F and °C) and weight.		MA-*05-2.2.2* *Students will describe, define, give examples of and use to solve real-world and mathematical problems nonstandard and standard (U.S. Customary, metric) units of measurement.*	I can use standard and nonstandard units of measurement to solve real-world problems.	

Strategies & Activities	**Resources**	**Common Assessments**
	Essential Questions	**Higher Order Questions**

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POS Understandings	MA-5-M-U-2 Students will understand that measurable attributes of objects and the units, systems and processes of measurement are powerful tools for making sense of the world around them. MA-5-M-U-3 Students will understand that appropriate techniques, tools and formulas are used to determine measurements.	9 Weeks Taught	1 2 3 **4**

POS Skills & Concepts	Date(s) Taught	Core Content for Assessment	Objective	Essential Vocabulary
MA-5-M-S-MPA1 Students will measure and construct angles to the nearest degree. **MA-5-M-S-MPA2** Students will use charts and tables to determine time schedules, work with time zones and estimate time. **MA-5-M-S-MPA4** Students will choose and use appropriate tools (e.g., protractor, angle ruler, meter stick, ruler) for measurement tasks. **MA-5-M-S-MPA5** Students will use measures to identify, describe, sort and compare attributes of objects. **MA-5-M-S-MPA6** Students will use standard units to determine area and perimeter of triangles and rectangles and volume of rectangular prisms and apply these skills to solve real-world and mathematical problems. **MA-5-M-S-SM4** Students will describe, define, give examples of and use to solve real-world and/or mathematical problems both nonstandard and standard (U.S. Customary, metric) units of measurement to include length, time, money, temperature (°F and °C) and weight.		*MA-05-2.1.2* *Students will choose and use appropriate tools (e.g., protractor, meter stick, ruler) for specific tasks and apply skills to solve real-world and mathematical problems.* *MA-05-2.1.3* *Students will use measurements to identify, describe, sort and compare attributes of objects and apply these to solve real-world and mathematical problems.*	I can choose and use appropriate tools for specific tasks. I can use measurements to solve real-world problems.	

Strategies & Activities	Resources	Common Assessments

	Essential Questions	Higher Order Questions

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POS Understandings	**MA-5-M-U-4** Students will understand that for each situation, there is an appropriate degree of accuracy in measurement.	**9 Weeks Taught**	**1 2 3 4**

POS Skills & Concepts	**Date(s) Taught**	**Core Content for Assessment**	**Objective**	**Essential Vocabulary**
MA-5-M-S-MPA7 Students will estimate weight, length, perimeter, area and angles using appropriate units of measurement.				

Strategies & Activities	**Resources**	**Common Assessments**
	Essential Questions	**Higher Order Questions**