

Essential Standards and Course Descriptions

Grade 5 Mathematics

Hortonville Middle School | Greenville Middle School

The following document has been created with our parents in mind. The purpose is to communicate with parents related to the 'essential standards' being taught for every subject and in every grade level. Included is also a brief course description written by a collaborative team of teachers representing both middle schools. As a school district, we believe very strongly that although we have two unique middle schools, both schools must ensure a guaranteed and viable curriculum. What this means is that the same 'essential' learning being taught at HMS will also be taught at GMS to ensure that EVERY student, regardless of enrollment, will be prepared to enter Hortonville High School having learned prioritized academic and behavioral expectations.

What is an 'essential standard'? Every school district adopts academic standards for every area of study. The Hortonville Area School District is no different. Unfortunately, not all standards are created equal. This means that some standards have been predetermined by the teaching faculty as most critical or 'essential' for students to learn and demonstrate before moving on to the next grade level. These standards are assessed and reported out to parents on progress reports (formerly called report cards). We sometimes call these our 'must know' standards. This is not to say that all other standards, or 'nice to know standards', are not covered, but they may not be covered to the same level as our 'essential standards'.



Below you will find a listing of courses taught at the 5th grade level in the Hortonville Area School District. Included will also be a brief course description and the 'essential standards' assessed. If you should ever have any questions, we strongly encourage parents to contact our faculty members early and often.

Subject: 5th Grade Mathematics

Course Description: In the 5th grade we use all four mathematical operations – addition, subtraction, multiplication, and division – with whole numbers and decimals. We also add and subtract fractions and mixed numbers with like and unlike denominators. Throughout the whole year we will be writing and using number talk to explain mathematical strategies and terminology, as well as, using pictures, models, and writing equations.

Essential Standards Assessed:

- **5.NBT.B.7**

Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

Number & Operations in Base Ten

Perform operations with multi-digit whole numbers and with decimals to hundredths.

7. Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

- **5.NBT.B.6**

Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division.

Number & Operations in Base Ten

Perform operations with multi-digit whole numbers and with decimals to hundredths.

6. Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Customized/Reworded Standard

6. Find whole-number quotients of whole numbers with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

○ **5.NF.A.1**

Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.

Number & Operations—Fractions

Use equivalent fractions as a strategy to add and subtract fractions.

1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. *For example, $2/3 + 5/4 = 8/12 + 15/12 = 23/12$. (In general, $a/b + c/d = (ad + bc)/bd$.)*