

Essential Standards and Course Descriptions

Grade 5 Science

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 Science

Course Description: In 5th grade Science, students develop an understanding that plants get the materials they need for growth chiefly from air and water. Students model and describe the movement of matter among plants, animals, decomposers, and the environment and that energy in animals' food was once energy from the sun. Students develop models and describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact, as well as research how we influence and protect these spheres. Students develop an understanding of patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky. Students determine whether the mixing of two or more substances results in new substances.

Essential Standards Assessed:

- **5-LS2-1**

Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

5-LS2 Ecosystems: Interactions, Energy, and Dynamics

Students who demonstrate understanding can:

Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

- **5-ESS3-1**

Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

5-ESS3 Earth and Human Activity

Students who demonstrate understanding can:

Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment

○ **5-ESS1-2**

Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.

5-ESS1 Earth's Place in the Universe

Students who demonstrate understanding can:

Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.

○ **5-PS1-4**

Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

5-PS1 Matter and Its Interactions

Students who demonstrate understanding can:

Conduct an investigation to determine whether the mixing of two or more substances results in new substances.