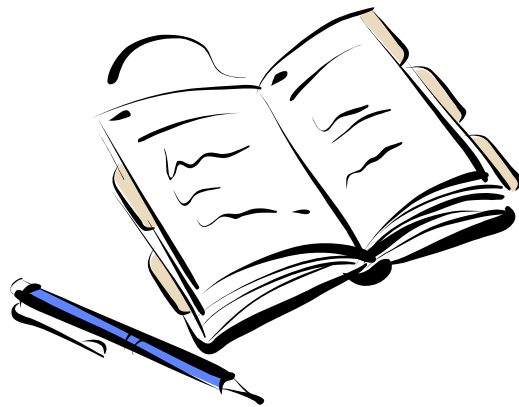


Hampden-Wilbraham Regional School District

Parent Guide
to
Grade Six Curriculum



HWRSD MISSION STATEMENT

*Our mission is to be one community of learners
committed to educating productive and responsible world citizens
within a safe, healthful environment.*

CURRICULUM OVERVIEW

The Hampden-Wilbraham Regional School District has a rich and rigorous core curriculum, as evidenced by students' excellent accomplishments. The curriculum renewal process is ongoing and ensures continuity and consistency in grades PreK-12. The allocation of grant and local funds has allowed the District to establish equity in access to high quality curriculum materials and resources in every classroom. All teachers use these assets to design powerful, standards-based learning opportunities that actively engage students in the learning process. The narrative below highlights current elementary and middle school programs in technology integration, reading, mathematics, and science.

Strengthening the integration of technology into instruction to improve learning is a high priority. The Hampden-Wilbraham Regional School Committee recently approved a plan to improve staffing, infrastructure, equipment, reliability, and professional development so that all students have suitable access to technology. Research tells us that technology makes learning more interactive, enjoyable, and customizable, and this improves students' attitudes toward the subject and their interest in learning. Our goal is to ensure that students maximize their learning while developing the technology competencies they need for the 21st century.

Through sound planning, incremental investment, and creative allocation of staffing, information centers are the learning hub of every school with grades 2 and higher. Each school's information center is considered a "dynamic agent of learning." These centers feature a library with a collection of both fiction and non-fiction, a research section with traditional print media and a bank of computers for internet searches, a computer lab with at least twenty five computers and publishing media tools for the development of presentations or productions. The level of technology integration and professional development across the curriculum has intensified with full-time information specialists and paraprofessionals to support assimilation efforts.

Our current elementary reading program incorporates National Reading Panel recommendations for curriculum, instruction, and assessment which address the five components of literacy learning: vocabulary/oral language comprehension, phonemic awareness, phonics, fluency, and reading comprehension. The core program, based upon the Houghton-Mifflin *Invitations to Literacy* (1997) balanced literacy series, is supplemented by classroom libraries and a steadily increasing number of leveled books for guided reading at the primary grades. *Accelerated Reader* is also accessed to encourage children to focus attention on careful reading of books, which improves students' critical-thinking skills and builds an intrinsic love of reading. Finally, to complete the language arts program, Collins Writing is consistently used in grades PreK-8 to support writing to learn across the curriculum.

Given the National Reading Panel recommendations, there is a need to find the right tools and use them with the right children. HWRSD supplemental regular education, Title 1, and/or Special Education reading interventions for students who are experiencing difficulty include: *Reading Recovery*, *Early Reading Intervention*, and small literacy groups for first graders who are performing at the lowest 20%

of their class, *Soar to Success* and *Story Grammar Marker* for students in grades 3-6 who need support in developing habits of mind for improving comprehension, *Lindamood-Bell* sensory-cognitive learning processes, and *Phonographix*, for students who need explicit phonics instruction.

The HWRSD mathematics curriculum is designed to develop understanding of mathematics concepts through student-centered activities while developing skills through meaningful practice. Rich, rigorous, in-depth units of study are balanced by direct instruction, selected textbook activities, and varied opportunities to review and practice skills. *Investigations* and *Mathematics* published by Addison-Wesley Scott-Foresman are used as the primary resources at the elementary level, while *Connected Mathematics* is the primary resource for students in grades six to eight.

Though the general curriculum is designed to invite inquiry by diverse learners, there is often a need to provide extra support or challenge to meet student needs. The District has adopted *Accelerated Math*, a technology based resource to address this problem. *Accelerated Math*

- Supplements the core curriculum;
- Meets NCLB definition for scientifically based research;
- Is a vehicle for individualized instruction;
- Generates unlimited practice assignments tailored to each student;
- Gives immediate, individualized feedback;
- Lets teachers and students know that all objectives are being mastered;
- Automatically scores all assignments and tasks;
- Helps students practice the skills needed to move ahead at their own pace.

Accelerated Math incorporates an assessment instrument called STAR Math. It is a helpful resource for Title 1 support programs, Academic Support Services, Special Education, after school and summer programs, and enrichment, but is also used within the regular classroom. The STAR Math assessment component provides norm-referenced achievement information, a good complement to the criterion referenced MCAS information.

The elementary science program is designed to help students develop scientific reasoning as they investigate and solve complex real-world problems using the tools they need. Standards-based science units are studied in the classroom and are enriched through a weekly science lab with a specialist.

HWRSD Academic Performance

Since its inception in 1998, the Massachusetts Comprehensive Assessment System (MCAS) has increasingly become a major source of information with regard to student achievement, curriculum evaluation, and diagnosis of individual student strengths and weaknesses.

The chart below displays a summary of MCAS performance data for 2002 - 2005.

Grade/Subject Tested	Percent of Students Scoring <i>Advanced/Proficient</i>				Percent of Students Scoring <i>Warning/Failing</i>			
	2002	2003	2004	2005	2002	2003	2004	2005
Grade 3 Reading	85%	87%	77%	80%	2%	0%	3%	2%
Grade 4 English Lang. Arts	71%	64%	75%	62%	4%	3%	2%	4%
Grade 4 Mathematics	50%	56%	58%	50%	10%	5%	5%	7%
Grade 5 Science/Engineering	N/A	70%	76%	72%	N/A	4%	3%	4%
Grade 6 Mathematics	60%	65%	59%	61%	8%	9%	9%	8%
Grade 7 English Lang. Arts	77%	77%	83%	77%	2%	2%	3%	1%
Grade 8 Mathematics	39%	56%	54%	65%	18%	13%	14%	11%
Grade 8 Science/Engineering	N/A	62%	51%	59%	N/A	10%	14%	6%
Grade 10 English Lang. Arts	77%	77%	75%	86%	4%	2%	2%	2%
Grade 10 Mathematics	66%	65%	70%	78%	10%	7%	3%	3%

Members of the graduating class of Minnechaug are required to pass both the grade 10 English Language Arts and the grade 10 Mathematics MCAS tests as one condition for receiving a high school diploma. Students starting with the graduating class of 2010 shall, in addition, need to pass a Biology test in order to satisfy State regulations.

The District is proud to announce that each year for the last two years, 90 or more students were eligible to accept the John and Abigail Adams Scholarship. Students qualified for this award by scoring in the Advanced category in English Language Arts or Mathematics and Advanced or Proficient in the other subject area on the grade 10 MCAS assessments. If they accepted the award, students received a tuition waiver to state colleges and universities that is in effect for 8 consecutive traditional semesters or 4 years.

It is important to note that the percentage of 10th grade students who scored at the Failing level in English Language Arts has decreased from 23% to 2% since spring of 2000, while the percentage of 10th grade students who scored at the Failing level in Mathematics has decreased from 36% to 3% since spring of 2000. These improvements are attributed to ongoing refinements of programs and the relentless pursuit of excellence throughout all levels of the educational system.

The state testing system has been evolving continuously for the last eight years. In 2006, the MCAS program tested all third through eighth grade children in reading and mathematics every year. This change is required by the No Child Left Behind Act, which was signed by President George W. Bush in January 2002. Other subjects will continue to be tested in the targeted grades.

In addition to MCAS performance, HWRSD educators use a range of information to monitor student achievement. One example of the data considered to be relevant is SAT scores. The table below provides longitudinal SAT results for students graduating from Minnechaug Regional High School.

MRHS	1995	1997	1998	1999	2000	2001	2002	2003	2004	2005
Verbal Mean	531	534	512	517	506	519	518	529	529	531
Math Mean	535	536	519	523	515	527	530	517	550	550

Consistent with other achievement tests, these results are well above the State average.

In order for students to be appropriately prepared for high stakes tests as well as for multiple career and educational options in the 21st century, it is essential that teachers, administrators, parents, community, and students work together knowledgeably over the long-term. Fortunately, the necessary partnerships in the District are vigorous and effective, with a shared commitment to continuous improvement at all levels.

WRITING ACROSS THE CURRICULUM

Students in the Hampden-Wilbraham Regional School District write a great deal across the curriculum areas. Writing is critical to language development, learning content thoroughly, and developing thinking skills. In grades K-8, the Collins Writing Program is utilized. One feature of this program is the designation of Five Types of Writing.

Type One writing is the type used just to get ideas down on paper. It is not a composition, but rather a "quick-write" to generate ideas, express an opinion, make a prediction, or reflect on an event. *Type One* writing is not graded for spelling or writing conventions. *Type One* writing is done frequently in all subject areas because it contributes significantly to each child's learning and language development.

Students also do a great deal of *Type Two* writing, which is also a quick-write. With *Type Two* writing, your child will be answering a specific question about content that is being studied. In evaluating *Type Two* writing, teachers judge only the content of the writing - not the conventions. *Type Two* also contributes significantly to each child's writing fluency.

Type Three and *Type Four* writing are compositions done to produce ideas and develop specific writing skills. With *Type Three* and *Four* writing, teachers use a strategy called focus correcting. Focus correcting is based on the belief that writing improves more quickly when students work to improve a few skills at a time. You will know what the focus correction areas (FCAs) are on any writing project your child does because they will be listed at the top of the paper. On *Type Three* and *Four* writing, teachers evaluate only the focus correction areas. This strategy keeps students focused on key aspects of writing and avoids giving too much negative feedback.

Students also do some *Type Five* writing. This is the most difficult type for all writers, especially young, developing writers. *Type Five* writing is writing that is revised and edited to be as free as possible of all types of errors. This kind of "publishable" writing requires multiple drafts. Most of the *Type Five* writing students do will start as *Type Three* or *Four*. Then over time, students will polish it so that it becomes a publishable *Type Five* piece of writing.

ENGLISH LANGUAGE ARTS

Primary Curriculum Resources: Houghton-Mifflin *Invitations to Literacy* (1997), *Write Source Handbook*, Classroom Library, Collins Writing

LEARNING OUTCOMES

- ☆ Give oral presentations for various purposes.
- ☆ Recognize organizational structures.
- ☆ Identify and analyze main ideas, supporting ideas, theme, and supporting details.
- ☆ Identify and analyze the characteristics of various genres.
- ☆ Identify and analyze the elements of setting, characterization, and plot (including conflict).
- ☆ Write stories or scripts, poems, explanations, formal letters, summaries, and research reports.
- ☆ Revise writing to improve level of detail, precise language, and vocabulary development.
- ☆ Use knowledge of correct mechanics, correct sentence structure, and correct Standard English spelling when writing, revising, and editing.
- ☆ Organize information about a topic into a coherent essay.
- ☆ Apply steps for obtaining information from a variety of sources, organizing information, documenting sources, and presenting research.

MATHEMATICS

Primary Curriculum Resources

The sixth grade mathematics curriculum is anchored by 5 in-depth units of study from *Connected Mathematics: Prime Time, Bits and Pieces I, Shapes and Designs, Bits and Pieces II, and Covering and Surrounding*. Teacher developed activities and units are also used to address some content. In addition to assignments that are closely connected to the content studied in the classroom, homework includes a weekly review assignment from *Math's Mate (Learning Cycles, 2004)* to keep skills sharp.

LEARNING OUTCOMES

- ☆ Apply number theory concepts to the solution of problems.
- ☆ Accurately and efficiently add, subtract, multiply, and divide whole numbers, positive decimals, fractions, and mixed numbers.
- ☆ Represent real situations and mathematical relationships with concrete models, tables, graphs, and rules in words and with symbols, e.g., input-output tables.
- ☆ Produce and interpret graphs.
- ☆ Select and use appropriate operations to solve problems.
- ☆ Add and subtract integers, with the exception of subtracting negative integers.
- ☆ Predict, describe, and perform transformations on two-dimensional shapes.
- ☆ Determine if two shapes are congruent.
- ☆ Identify, measure, describe, classify, and construct various angles, triangles and quadrilaterals.
- ☆ Solve problems involving proportional relationships and units of measurements.

- ☆ Find areas of triangles, parallelograms, and circles.
- ☆ Apply the concepts of perimeter and area to the solution of problems.
- ☆ Find volumes and surface areas of rectangular prisms.
- ☆ Describe and compare data sets.
- ☆ Construct and interpret stem-and-leaf plots, line plots and circle graphs.
- ☆ Predict the probability of outcomes of simple experiments and test the predictions.

SCIENCE AND ENGINEERING/TECHNOLOGY

Primary Curriculum Resource: *Science Explorer* (Prentice-Hall, 2002)

The science curriculum is designed to help students develop scientific reasoning as they investigate and solve complex real-world problems using the tools they need. Units of study are: *Living Things and Their Environment; Energy and Living Things, Weather, and The Human Body*. The science or engineering lab experience, which is part of the related arts schedule, enriches and extends science learning.

LEARNING OUTCOMES

- ☆ Give examples of ways in which organisms interact and have different functions within an ecosystem.
- ☆ Explain the roles and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.
- ☆ List and describe Earth's major land, water, and ocean biomes.
- ☆ Explain the relationship among radiant energy, global atmospheric movement, and the temperature differences among water, land, and atmosphere.
- ☆ Differentiate among radiation, conduction, and convection.
- ☆ Identify the general functions of the major systems of the human body and how these systems interact with each other.
- ☆ Identify and explain the steps of the engineering design process.
- ☆ Define and differentiate among volume, density, weight, and mass.

HISTORY AND SOCIAL SCIENCE

Primary Curriculum Resources:

A Message of Ancient Days (Houghton-Mifflin); *History Alive!* (Teachers Curriculum Institute)

The history and social studies curriculum in grade six focuses upon Human Origins in Africa through the Neolithic Age, Mesopotamia, Egypt, Phoenicia, Ancient Israel, Ancient Greece, and Ancient Rome. Skills and concepts within the strands of civics, history, geography, and economics are embedded within the content of the units specified above.

MUSIC AND VISUAL ARTS

An effective arts curriculum provides a sequential program of instruction in music and visual arts for all students beginning in preschool and continuing through high school. For all children at all ability levels, the arts play a central role in human development. Cognitive, language, and social- emotional development are positively impacted by participation in the arts. As stated in the Massachusetts curriculum frameworks, the arts serve to:

- ☆ Motivate and engage children in learning.
- ☆ Stimulate memory and facilitate understanding.
- ☆ Enhance symbolic communication.
- ☆ Promote relationships.
- ☆ Provide an avenue for building competence.

Much research substantiates that good arts programs in elementary and middle schools not only build skills needed to learn math, reading, and writing, but motivate students, particularly those who are at risk of failure.

HWRSD provides the option for sixth grade students to participate in instrumental music and/or chorus in addition to the weekly music program. Typically there are two evening performances, mid-year and end-of-year, to celebrate the excellent accomplishments of the young musicians.

HEALTH AND PHYSICAL EDUCATION

As an integral part of the total educational process, health and physical education will create opportunities to develop a lifelong physically active lifestyle as well as respect for self and others, through a safe learning environment. Through health literacy, self-management skills (Second Step), and health promotion, comprehensive health education teaches fundamental health concepts, promotes habits and conduct that enhance health and wellness, and guides efforts to build healthy families, relationships, schools, and communities (Massachusetts Department of Education, 1999). Students experience health/physical education class twice weekly.

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