

## Social Studies

- Identify the key features of a map including the key, scale, title, and compass rose
- Interpret different types of maps
- Identify absolute location indicated by latitude and longitude, and relative location indicated by direction, distance, or travel time
- Identify the physical and human characteristics of a place
- Identify the many ways in which people have adapted to their surroundings or altered them for economic reasons
- Identify the movement of people, goods, ideas, and services
- Identify the ways of categorizing regions of the world

## Integrated Arts

### Art

Visual Arts Education inspires students to perceive and shape the visual, spatial, and aesthetic characteristics of the world around them as well as develop their capacity for imaginative and reflective thinking. (Massachusetts Arts Curriculum Framework)

- Introduce the elements and principles of design through the study of line, shape and color
- Explore new media and techniques for drawing
- Discover new artists (Georgia O'Keefe)
- Apply math concepts to three-dimensional sculpture

### Music

- Identify and demonstrate the meaning of musical notation
- Identify the basic components of music as ways in which composers organize sounds into music
- Identify, compare and contrast folk music styles and formal music styles

### Vocal Music

- Demonstrate vocal skills involving basic singing techniques and music from many genres in a non auditioned setting
- Demonstrate advanced vocal skills in an auditioned setting involving vocal festival competitions, multiple performing venues and recording studio experiences

## Health

- Identify five individual strengths in self and others
- Compare the changes from elementary school to middle school within their peers, classes, teachers, and environment
- Role play refusal skills
- Identify ways of coping with a bully using conflict resolution skills
- List ten healthy decisions that contribute to personal wellness and make them part of one's daily life skills.
- Explain how drugs effect the body
- Identify advertising techniques used to persuade consumers into buying their product
- Explain healthy habits that affect normal growth and development
- Understand changes that pre-teens might be concerned about regarding puberty
- Distinguish between myths and facts about AIDS

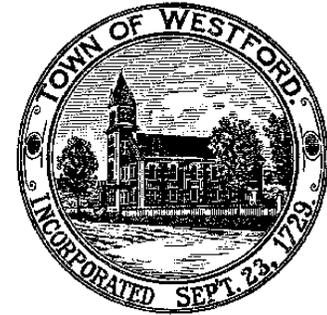
## Physical Education

- Identify proper warm-up techniques and reasons for using them
- Participate with and show respect for persons of like and different skills
- Use locomotor, throwing and dodging skills with more competence

## Family Consumer Science

- Complete a sewing project using machine and hand sewing
- Use the Food Pyramid to construct a healthy diet that meets the needs of growing adolescents
- Practice basic culinary skills and kitchen safety precautions

# WESTFORD PUBLIC SCHOOLS



## CURRICULUM BENCHMARKS

### GRADE 6

Lloyd G. Blanchard School

The Stony Brook School

Compiled by Curriculum Task Committees  
under the direction of  
Director of Curriculum and Instruction  
Lorraine Tacconi-Moore

*"Shaping the future one child at a time"*  
<http://westford.mec.edu/schools>

## English Language Arts

- Acquire, understand and use new vocabulary from the Sadlier Oxford Level A
- Demonstrate an understanding of the elements of poetry both in their analysis of literature and in their creation of original poems
- Write and revise short narrative pieces that demonstrate an understanding of structure and narrative style
- Demonstrate an understanding of the eight parts of speech through grammar exercises and written work
- Organize and present a summary of research findings which incorporates the use of books, internet sources, encyclopedias and periodicals

## Reading

- Acquire and use new vocabulary as encountered in the literature program
- Choose books to read independently and reflect and respond in writing to those selections
- Build understanding of the elements of literature including characterization, plot, setting, point of view and theme
- Develop an understanding of the characteristics of historical fiction, science fiction, mystery and biography
- Practice basic reading skills, including literal and inferential comprehension by drawing from novels from the Core List
- Participate in “read-aloud” activities and in literature circle discussions

## Math

- Demonstrate an understanding of fractions, decimals, and percentages in regard to function, value, and equivalence
- Accurately and efficiently add, subtract, multiply, and divide fractions, mixed numbers, and decimals.
- Replace values with given values and evaluate/simplify
- Solve linear equations
- Identify three-dimensional objects based on their properties
- Graph points and identify coordinates of points on the Cartesian coordinate plane
- Apply the concepts of perimeter, circumference, and area to the solution of problems
- Find areas of triangles and parallelograms accurately and efficiently
- Identify, measure, and describe circles and relationships of the radius, diameter, circumference and area
- Describe and compare data sets using the concepts of median, mean, mode, and range
- Construct and interpret stem-and-leaf plots, line, plots, and bar graphs

## Accelerated Math

All of the above plus:

- Add and subtract positive and negative integers
- Identify relationships among points, lines and planes
- Identify types of symmetry
- Find volumes and surface areas of rectangular prisms
- Predict the probability of outcomes of simple experiments
- Use appropriate ratios to represent the probability of the outcome

## Science

The Grade 6 curriculum focuses on the following major units of study: solar system, classification of organisms, atoms, periodic table, and Earth’s history.

- Read and interpret USGS topographical maps and create contour models and draw contour maps.
- View fossils and demonstrate their place in the geologic time line
- Create a moon chart or moon window to show the phases of the moon, and understand the relative position of the earth-moon-sun to show neap and spring tides
- Create a geographical representation of the position of the earth in relation to the sun to describe the seasons
- Analyze classification charts and create kingdom charts, and posters of the characteristics of life.
- Recognize that organisms are composed of cells, understand the differences between prokaryotic and eukaryotic cells, and compare and contrast plant and animal cells
- Demonstrate a basic understanding of the structure of the periodic table of the elements identifying physical and chemical properties of a substance.
- Interpret the information on the periodic table for the first 20 elements, and draw a model of the elements including protons, neutrons, and electrons
- Understand and explain the external source of energy (sun) and its usefulness on earth

## Technology Education

- Demonstrate safe and proper use of a power miter saw, belt sander, drill press, nail gun, hammer, nail set, awl, ruler, and stamps
- Complete a three-view drawing (top, side and end view) of a completed box using CAD design software
- Design a model rocket from rough sketch to prototype and test the finished product