## English Language Arts

**Reading Literature & Informational Text**

- Read & comprehend a variety of grade level texts of American literature of appropriate complexity
- Demonstrate knowledge of eighteenth, nineteenth & early-twentieth century foundational works of American literature, including how two or more texts from the same period treat similar themes or topics
- Determine two or more themes or central ideas of a text & analyze their development over the course of the text, including how they interact & build on one another to produce a complex account; provide an objective summary of a text
- Analyze how an author's choices concerning how to structure specific parts of a text contribute to its overall structure & meaning as well as its aesthetic impact
- Analyze the impact of the author's choices regarding how to develop & relate elements of a text
- Determine meaning of unknown words & phrases & analyze the impact of specific words or rhetorical patterns
- Compare/contrast important points, elements & key details of two or more texts

**Writing**

- Produce clear & coherent writing in which the development, organization, & style are appropriate to task, purpose, & audience, including expository, persuasive, & narrative writing
- Draw evidence from literary or informational texts to support written analysis, interpretation, reflection, & research & cite it appropriately
- Develop & strengthen writing using the writing process

**Speaking & Listening**

- Engage effectively in a range of collaborative discussions
- Communicate effectively in oral presentations
- Evaluate a speaker's argument & specific claims, distinguishing claims that are supported by reasons & evidence from claims that are not.

**Language**

- Acquire new vocabulary both from reading & from the Sadlier-Oxford Level F vocabulary program
- Use grade-level appropriate conventions in daily writing

## Social Studies

**Standards for History & Social Science Practice (PreK-12)**

1. Demonstrate civic knowledge, skills, & dispositions.
2. Develop focused questions or problem statements & conduct inquiries.
3. Organize information & data from multiple primary & secondary sources.
4. Analyze the purpose & point of view of each source; distinguish opinion from fact.
5. Evaluate the credibility, accuracy, & relevance of each source.
6. Argue or explain conclusions, using valid reasoning & evidence.Determine next steps & take informed action, as appropriate.

**Grade 11: United States History II:** Students will use the History & Social Science Practices to explore such focus questions as, "How has the United States government responded to crises?", "What are the sources of political & cultural differences in the modern United States?" & "How has the Constitution affected American life?"

**Grades 11 & 12:** Electives in Social Studies: In grades 11 & 12, students apply the History & Social Science Practices through their participation in various electives. A variety of electives are available such as Psychology, Criminal Minds, Economics & American Government. These courses are available at a variety of levels; College Prep, Honors & Advanced Placement. See Program of Studies for complete details.

## World Languages

- Students may take level 1, 2, 3 or 4 of a language
- Level 1 students will be working towards communicating at the Novice Mid proficiency level based on the ACTFL guidelines.
- Level 2 students will be working toward communicating at the Novice High through Intermediate low proficiency level
- Level 3 students will be working toward communicating at the Intermediate low through Intermediate Mid proficiency level
- Level 4 students will be working toward communicating at the Intermediate mid through Intermediate high proficiency level
- In all level 1, 2, 3 & 4 language courses, except Latin, students will develop skills in 5 domains: interpersonal writing & speaking, interpretive listening & reading, & intercultural communication. Latin students will focus on developing their skills in interpretive reading & cultural competency.

## Math

**Mathematical Practices**

Mathematics at Westford Academy progresses through Massachusetts State Standards. Specific grade prerequisites as well as scope and sequences for each course can be found on the mathematics page of the Westford Academy website. A strong mathematical foundation and disciplined work habits are critical to success in sequential mathematics classes. For these reasons, students will be recommended to take the level deemed appropriate by their math teacher.

All six standards of mathematical practices are embedded throughout the curriculum daily. In each term some practices are emphasized according to the content/context of the mathematics.

**Course Options**: based upon prerequisites and recommendations
*Mathematics*: Algebra 2, Trig and Advanced Algebra, Trig and Pre-Calculus, Advanced Quantitative Reasoning (AQR), AP Statistics and Statistics
*Computer Science*: Video Game Programming, Exploring Computer Science (Parts A and B), Honors Java Programming, AP Computer Science A

**Teacher recommendations** for Honors and AP courses are based upon "Characteristics of a Successful Student" which can be found on the math website. An overview of the Westford Academy Mathematics Course Sequence can be found here. An overview of the Computer Science Course sequence can be found here.

## Science & Engineering/Technology

Westford Academy presents a broad science & engineering program designed to develop an awareness & appreciation of the extent of science & its influence on the Earth, & human well being. All courses are laboratory classes & the sequence of courses offered will carry the student through the various phases of science techniques & content. As the student develops a logical approach to problem solving, the aim of the science program is to have each student become a scientifically educated citizen & a lifelong learner. The program is aligned with the Massachusetts Science Frameworks & satisfies the requirements for post high school training in various science fields whether it be medical, engineering, or liberal arts.

Students typically enroll in a physics course in eleventh grade. The options for physics include: CP Physics or Honors Physics. Along with physics, students also have the option to take a science elective. Elective options for juniors include: Honors Robotics 1 & 2, CP Robotics 1 & 2, Mechanical Engineering, Environmental Science, Anatomy & Physiology, Marine Biology, Forensic Biotechnology, AP Environmental Science, AP Biology, & AP Chemistry. The course students will take is based upon prerequisites & recommendations. More information can be found on the Science & Engineering Technology Course Composites page as well as the Science Course Sequence page.

Physics:

- Speed, Velocity, Acceleration
- Vectors
- Projectile Motion
- Newton's Laws
- Circular Motion
- Momentum & Impulse
- Energy
- Properties of Waves, Light, & Sound

## Business / DECA

The Business Department offers a curriculum that facilitates an academic & practical understanding of the scope, function, & nature of business in a free-market society. Course content is supplemented with the study of real-world business examples, using the case study method & in-class discussions on relevant business news articles. Our goal is to provide a well-rounded educational experience that will not only prepare our students for college level business courses, but also to prepare them to become productive citizens. The DECA Business Club prepares emerging leaders & entrepreneurs in the areas of marketing,

finance, hospitality, & management in high schools & colleges around the globe. DECA's competitive events directly contribute to every student being college & career ready when they graduate Westford Academy by focusing them on being academically prepared, community oriented, professionally responsible & experienced leaders. Westford Academy's DECA club is for students (grades 9-12) who have an interest in the business field or want to better prepare themselves for college or career after high school. Our members compete in a program that uses interviews, tests, role plays, & written projects to evaluate their professional skills. WA DECA provides its members with a unique, comprehensive, & time-tested Training Program, which offers a library of online resources, Training Classes & one-on-one instruction are available & adaptable to the students' varied schedules, & practice presentation sessions with a judge all designed to ready the WA members for competition. Members have an opportunity to compete at three qualifying levels (Districts, States, & Internationals) as either individuals or in teams of 2 or 3.

## Health & Physical Education

The Health & Physical Education Program integrates various aspects of wellbeing throughout the K-12 curriculum, directly impacting a student's health & physical literacy. SHAPE America defines health & physical literacy as follows:

- Health Literacy: An individual's capacity to access information, resources & services necessary to maintaining & promoting health.
- Physical Literacy: An individual's ability, confidence & desire to be physically active for life.

**Health Education**

*Child Development*

- Describe the consequences of teen parenting & be aware of the options available to pregnant teens
- Acquire the basic knowledge of the reproductive system, pregnancy & childbirth
- Understand the social, emotional & physical developmental stages of a child from infancy through the school age years.
- Understand the growth & development expectations of the newborn to preschool-aged child

*Nutrition & Culinary Consumer Education*

- Develop an understanding of food preparation techniques
- Plan & prepare basic nutritious meals
- Assist in value clarification & decision making in relation to personal food choices with an emphasis on healthy alternatives in daily life
- Develop laboratory, writing & critical reasoning skills through measuring, recording & graphing data, predicting & evaluating laboratory results & writing laboratory reports.
- Understand the financial implications of certain food choices through creating budgets
- Analyze nutritional content of foods

**Physical Education**

*Kinesiology of Team Games*

- Students will develop individual & team game skills, further their understanding of rules & strategies; with a practical application during individual skill development & gameplay.

*Kinesiology of Individual & Dual Games*

- Students will develop the knowledge & transferable skills for successful participation in an individual or multiplayer game environment.

*Kinesiology of Fitness & Outdoor Pursuits*

- Students will gain an understanding of the knowledge & skills necessary for leading a physically active lifestyle, which benefits the life-long healthy development of the whole student.

*Kinesiology of Rhythmic Movement*

- Students will explore a variety of rhythmic movement patterns & skills. Students will develop an understanding of the importance & value of physical activity for health, enjoyment, challenge, & self-expression.

## Visual & Performing Arts

Westford Public Schools Visual & Performing Arts education engages every child as a life-long learner through examination, interpretation, & performance. Students analyze & create all of the emotional, cultural, logical, symbolic, intuitive & physical aspects embodied in the arts to understand & share its beauty with their communities. Our curriculum follows the Massachusetts Department of Education 2019 Curriculum Frameworks & adheres to the following criteria:

**Guiding Principles for an Effective Arts Education**

**Standards for Artistic Practice**

**Please click here to see our Department offerings in the areas of Music, Visual Art & Theater Arts at Westford Academy.**



# WESTFORD PUBLIC SCHOOLS

# Curriculum Benchmarks

# Grade 11

## WESTFORD ACADEMY

*"Shaping the future one child at a time"*

Visit our website at: www.westfordk12.us