

Traits Exhibited by Many Twelve- to Fifteen-Year Olds

All children develop differently, but you may notice the following traits as your child attends Ninth Grade.

- Have a strong drive for conformity with own age group
- Have intense feelings and emotions
- Are influenced greatly by popular adults and teenage idols
- Have rapidly changing interests and ambitions
- Have a long interest span and increasing capacity for self-discipline
- Prefer competition with outside groups over competition with friends
- Have an idealism about the world at large
- Have concern with their personal appearance, self-consciousness and inhibition
- May begin to mature physically
- Boys and girls can work together on projects better than they can socialize

Self-Directed Learning

- Follow school and classroom rules
- Use self-control
- Show respect for others
- Work to solve own problems
- Work cooperatively with others
- Work independently to a greater degree as the school year progresses
- Use time productively
- Make plans and organize before working
- Work quietly when directed
- Complete work in a timely manner
- Evaluate own work

English 9

- Use language to convey appropriate message
- Listen when others are speaking
- Contribute ideas to discussions
- Analyze literature in terms of character, plot, setting, conflict, theme
- Make predictions about a variety of texts
- Support opinions with factual information
- Read a variety of genre: short stories, plays, novels, poetry
- Write well developed and organized paragraphs
- Write stories, personal thoughts, letters, essays, research reports, poetry or react to reading
- Orally summarize fiction and non-fiction after reading
- Know and apply the uses of punctuation
- Apply knowledge of parts of speech, subject-verb agreement, phrases and clauses, and commonly confused words
- Recognize that words may have different contextual meanings
- Present oral reports and speeches
- Understand the importance of word choice in conveying a message and relating to an audience
- Develop note-taking skills
- Spell most words correctly
- Self-assess writing according to the 6-Traits model
- Use writing process to plan and create written work
- Increase written and spoken vocabulary
- Use computers to organize and communicate information
- Write a variety of essays focusing on the Six Traits of Writing
- Understand dialect as used in literature selections
- Read classic literature (Of Mice and Men, Romeo and Juliet)
- Read non-fiction (magazine articles, reference books)
- Read self-selected materials
- Participate in group projects and presentations

All Math Courses

- Apply common sense and probability of result to all work
- Understand how math is essential in real life including career choices
- Compare real numbers
- Understand and use ratios, proportions, percents, rates of change
- Manipulate numbers and compute using appropriate operations
- Explain orally and in writing numerical operations and procedures
- Understand commutative, associative, distributive, and transitive mathematical properties
- Use technology to carry out computations
- Use geometric models to describe relationships and solve problems

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- Use appropriate measurement tools
- Measure using estimation and reasoning
- Know and use geometric formulas
- Read and use data in graphs and tables

Algebra A

- Simplify expressions using order of operations, number properties, and combining like terms
- Organize data using stem-and-leaf plots, line plots, and scatter plots
- Recognize patterns and sequences.
- Use exponents effectively
- Interpret and make different types of graphs
- Identify and graph the different sets of numbers. (natural, whole, etc.)
- Perform operations on the different sets of numbers
- Write and solve linear equations
- Identify and apply concepts dealing with complementary and supplementary angles
- Understand properties of triangles
- Solve multivariable equations for a specific variable
- Graph linear equations on a coordinate plane and understand slope
- Understand mean, median, and mode, and know how to compute each
- Understand proportional reasoning
- Understand and apply basic right triangle trigonometry
- Understand and apply the concepts dealing with percents
- Understand probability and odds
- Understand weighted averages
- Understand direct and inverse variation
- Explore basic function properties
- Explore measures of variation in statistics
- Find the midpoints of a line segment

Algebra 1

- Simplify expressions using number properties and combining like terms
- Know and use the definition of an exponent n , either positive or negative
- Know that a non-zero number to the zero power is one
- Understand and use negative and positive numbers and even and odd powers
- Be able to multiply exponents
- Convert decimal numbers to and from scientific notation
- Use a scientific calculator
- Maintain equivalence of an equation throughout number operations
- Expand binomials
- Factor expressions
- Interpret geometrical problems and put in equation form
- Know the concept of slope
- Understand and use a function
- Use proportion to calculate for an unknown quantity
- Calculate frequencies
- Solve quadratic equations
- Solve linear equations
- Solve equations with more than one variable
- Understand sine, cosine, and tangent ratios
- Understand the properties of triangles

Geometry

- Classify angles
- Use and understand perpendicular lines and planes
- Construct indirect and direct proofs
- Understand congruent angles
- Classify Triangles
- Classify Polygons
- Understand similarity of proportion
- Use square roots
- Use the Pythagorean Theorem
- Understand and use circles, segments, and arcs
- Figure surface area of prisms, cylinders, cones, spheres
- Calculate and graph slope of lines

Physical Science

- Understand that the themes of science affect everyday life and decisions
- Understand how scientific themes and theories can apply to future conditions and situations
- Understand that conflicting assumptions can lead to different conclusions and decisions
- Understand that science investigations have increased human knowledge
- Know how cultures and individuals have contributed to scientific knowledge
- Know how basic research and applied research have contributed to new discoveries
- Understand the scientific method of observation, investigation, data collection, and hypothesis
- Read and evaluate scientific articles of timely import
- Be able to describe atomic structure and properties of atoms
- Explain the forces that hold the atom together
- Illustrate how nuclear interactions change the atom
- Identify types of chemical interactions
- Analyze changes in motion of objects and forces that act on them
- Describe models and behaviors of light, heat, and sound

American History

- Understand that social studies involves the study of history, geography, political science, economics, peoples, cultures, and social sciences such as anthropology, sociology, and psychology
- Use atlases, maps, and globes to locate regions and collect data
- Construct mental maps, recalling major physical features
- Understand that environment affects people and culture
- Understand that history affects the present and future conditions of cultures, people and countries
- Learn about important people and their contributions to history and/or the present
- Understand different cultures or eras and the corresponding political systems
- Research a topic and present relevant data and conclusions to the class or teacher
- Participate in group projects
- Present information orally and in writing
- Contribute to discussions with relevant information and opinions
- Learn about history, culture, and current status of American Indian tribes and Wisconsin bands
- Learn about slavery and discrimination in the US and world
- Refine knowledge of the Constitution and Bill of Rights and evolution of interpretation over time
- Understand the US relationship to other countries
- Understand how economic concerns have affected US history and the present
- Understand the expansion into the western territories, the economic results and the effect on Indian tribes
- Understand the role of immigrants into the US
- Understand the events leading up to and the ramifications of WWI and WWII
- Understand the events leading up to and the ramifications of the Viet Nam War
- Understand Supreme Court decisions that have interpreted the US Constitution
- Understand the present day conflicts in the Middle East and the Balkans

Information and Technology

- Use software to organize thoughts for written work
- Keyboard accurately at 30-45 wpm
- Use scanner, digital camera, and other digital equipment
- Produce work processing documents, spreadsheets, databases, PowerPoint, and drawing products
- Use various web browsers to modify and focus web searches
- Transfer graphics, pictures, and video clips into student-made documents
- Choose appropriate library materials
- Care properly for library materials and equipment
- Use a variety of library resource materials
- Demonstrate note-taking skills
- Demonstrate proper citation of resource materials used
- Learn to assess one's own progress and quality of work