

### Traits Exhibited by Many Fifteen to Eighteen-Year Olds

All children develop differently, but you may notice the following traits as your child attends Tenth, Eleventh, or Twelfth Grades.

- Want to earn money for independence and freedom
- Desire increased responsibility
- Need to be treated as young adults
- Occasionally revert to childish behavior
- Are very critical of self
- Seek prestige and belonging to the power group
- Are able to concentrate and specialize in selected skills and interests
- Have expansive and changing ambitions
- Are encountering a conflict between idealism and materialism
- Develop crushes with depth of feeling
- Tend to cover own weaknesses with similar weaknesses of the group

#### 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

### All Agriculture Courses

- Access information from many sources
- Understand how technology affects agricultural industries
- Learn about various careers in agriculture
- Learn leadership skills
- Understand production and processing in fiber, food and horticulture industries
- Understand political policies and societal implications for agriculture industries
- Participate in FFA

### Agriculture Business

- Prepare FFA award reports
- Identify how political policies and issues shape and influence food and fiber system
- Understand the complexity of the agricultural industry in the world
- Access information identifying the post-secondary education programs, both in and outside of Wisconsin, leading to careers in the food, fiber and natural resources industries
- Analyze benefits, costs, and consequences of processing food and fiber on the environment
- Learn the process of marketing food, fiber and natural resources
- Understand the complex economic system of food and fiber production and distribution
- Research careers in agricultural industries

### Animal Science

- Prepare a proficiency report
- Explain how geography affects plants and animals raised for food and fiber uses
- Understand that trade-offs are made with the adoption of new technologies
- Understand that the food and fiber industry are a complex system of production, processing, marketing, distribution and profit
- Understand the impact of emerging technologies

### Dairy and Soil Science

- Learn teamwork and team decision-making processes
- Learn nutritional and basic care requirements of crop plants
- Understand the basic care of animals
- Understand how milk is produced
- Understand natural and artificial methods of livestock reproduction
- Analyze practices to reduce erosion and runoff
- Explore various career opportunities in the food fiber and natural resources industries
- Understand the role of natural resources and identify those resources essential to the food, fiber, and the ornamental horticulture industry in WI

### Introduction to Agriculture

- Complete a Record book project
- Identify characteristics of successful leaders
- Understand the variety, complexity, and size of the agriculture industry in WI and US
- Find and apply information to evaluate natural resources
- Explain emerging technologies within hydroponics, aquaculture, and biotechnology
- Understand how land use impacts the environment
- Understand how food, fiber and natural resources are part of a global economy
- Inventory personal interests and abilities to plan for a potential occupation in agriculture business
- Understand the importance of community service

### All Art Courses

- Know and recognize art from different cultures and times
- Know that art communicates ideas, structural expression, and design
- Be able to communicate in artistic terms
- Interpret visual messages in advertisements and TV programs
- Develop observational skills
- Make art that explores emotions
- Know that art reflects history and culture
- Use a variety of artistic materials
- Critically analyze art
- Use color, form and texture to create art
- Use different techniques to produce art

### Drawing

- Know tools, materials and terminology related to drawing
- Draw using contour (edge) lines.
- Draw and shade basic shapes (cube, sphere, cylinder, cone)
- Draw and shade a still life.
- Draw in perspective. (3Dimensions)
- Draw in a variety of mediums (pencil, charcoal, chalk, ink, markers)
- Know the facial proportions & draw a portrait.

### Painting

- Know tools, materials and terminology related to painting
- Color theory & mixing. (primary, secondary, intermediate & complimentary colors.)
- Create watercolor painting.
- Create acrylic painting

### Printmaking

- Know tools, materials and terminology related to printmaking
- Create experimental prints
- Create single and multicolor block prints
- Create silk screen prints
- Create etchings
- Create mono-prints

### Design

- Know tools, materials and terminology related to design
- Produce calligraphy
- Produce descriptive lettering styles, letter design
- Produce a poem and poster
- Produce logo design
- Produce a package design

### Ceramics

- Know tools, materials and terminology related to ceramics.
- Hand built pottery (pinch, slab, coil, & molded)
- Make pottery using the potters wheel
- Use multiple finishing techniques (glaze, under-glaze, wax resist, paint)

### Jewelry

- Know tools, materials and terminology related to jewelry
- Create pendant or ring – pierced design (holes)
- Use soldering
- Use stone setting
- Use lost wax casting
- Use enamel
- Use forging

### **Sculpture**

- Know tools, materials and terminology related to sculpture
- Learn low relief sculpture
- Learn portrait basis – skull
- Learn portrait (head)
- Learn figure sculpture
- Learn welded sculpture
- Learn cast aluminum
- Learn wood carving

### **Leather**

- Know tools, materials and terminology related to leather
- Create stamping patterns- wrist band, belt
- Create leather carving – picture, wallet or checkbook
- Learn lacing and sewing leather
- Learn finishing procedures – dye, color, oil, lacquer

### **Computer Graphics**

- Know tools, materials and terminology related to graphic design
- Learn line, shape, and layered design
- Use image import and alteration
- Create logo design, business card, letterhead
- Create CD cover design
- Create letter design, advertisement

### **Airbrush**

- Know tools, materials and terminology related to airbrushing
- Basic paint application, flat color, graded and shaded color
- Use of stencils and block-outs
- Learn basic shapes and shading
- Learn T-shirt / painting
- Learn freehand painting

### **Art survey**

- Know tools, materials and terminology related to the area working in.
- Draw using a variety of media (pencil, charcoal, ink, etc.)
- Learn painting or printing
- Learn sculpture or ceramics
- Learn crafts (choice- leather, jewelry, macramé, copper tooling, glass painting)

### **Crafts**

- Know tools, materials and terminology related to the area working in.
- Create Batik (cloth dying w/ wax resist) or weaving
- Create pottery or jewelry
- Create glass etching or painting
- Use leatherwork or copper tooling
- Learn macramé or mosaic

### **All Business Courses**

- Communicate in a clear, courteous, concise, and correct manner
- Develop teamwork skills
- Refine computer skills
- Learn a variety of business computer software
- Write business correspondence

## Accounting

- Prepare financial statements
- Calculate interest and sales tax
- Prepare and maintain payroll records

## Introduction to Business

- Learn about economic principles
- Learn the interaction of business, consumers and government
- Learn how interest rates are set
- Learn how to set up a business
- Prepare a personal net worth statement
- Learn about the impact of competition on profits
- Learn about supply and demand
- Learn about the role of marketing in the U.S. economy
- Learn about domestic and international companies
- Identify currencies throughout the world
- Learn about unions and management

## Computer Applications

- Analyze data
- Use multimedia software
- Make business forms
- Import text and graphics
- Import, export and merge data
- Use on-line services
- Design and create a web page
- Make newsletters and brochures
- Use spreadsheets, data bases, and word processing

## Computer Applications II

- Use the integration features of a software package
- Import text and graphics from other software programs
- Import, export, and merge data
- Analyze spreadsheet data
- Use common features of multimedia software
- Identify laws and rules pertaining to computer crime, fraud, and abuse
- Practice a code of ethics for information services
- Sort and file documents according to established procedures

## Business Law

- Learn the difference between misdemeanors and felonies
- Learn common legal terms
- Understand the judicial system
- Learn individual rights and responsibilities
- Learn court systems and procedures
- Learn different types of contracts
- Learn about consumer protection legislation
- Learn about laws governing business

## Information Technology I

- Learn to type letters, numbers and symbols without looking at hands
- Learn how to use the number pad
- Use software to compose at the computer and organize your work
- Develop keyboarding skill in the 30-45 wpm range
- Learn to use the digital camera and scanner
- Learn to use the browser for finding and transferring pictures into your documents
- Learn different search sites on the Internet
- Format a letter using block style

## Information Technology II

- Format and fill in column tables
- Produce memos
- Insert headers and footers into documents
- Produce reports using standard report format

### **WebDesk and Applications**

- Create and edit a web page using HTML
- Create a web site with links and images
- Create a table within a web site and use tables for image layout documents
- Create an image map
- Create a frame format for the web site
- Create forms and questionnaires for the web site
- Create a style sheet for the web site
- Integrate JavaScript into HTML
- Learn how to use PageMaker for creating documents

### **Computer Programming and Presentations**

- Write a program using Visual Basic to perform: calculations, if/then statements, cause a loop, create graphics, and cause random events
- Create a presentation using PowerPoint

### **Health: Grade 12**

- Learn about the factors involved in wellness and staying well
- Learn about the role attitude plays in maintaining health
- Complete a personal health assessment
- Develop personal goals to promote good health
- Learn about factors involved with substance abuse
- Learn about causes and prevention of various diseases
- Develop an understanding of mental illness
- Learn the basics of good nutrition
- Learn to read and understand health information on products and advertised services
- Understand the impact of our habits on our environment
- Learn about and apply conflict resolution strategies
- Participate in discussions, offer opinions and accept other opinions

### **All Music Courses**

- Be able to evaluate others' performances
- Be able to identify standard musical notation
- Be able to demonstrate proper performance technique
- Learn about music from other cultures
- Be able to read music
- Demonstrate proper audience and performance techniques

### **Choral Music**

- Be able to identify instrumental families
- Be able to perform a variety of music

### **Instrumental Music**

- Be able to sing instrumental parts
- Be able to demonstrate proper instrumental techniques
- Be able to analyze and perform different styles of music

### **All Physical Education Courses**

- Demonstrate sportsmanship
- Demonstrate coordination
- Demonstrate a good attitude
- Demonstrate good nutrition knowledge
- Know the basics and rules of individual and group sports and recreational activities
- Achieve an average score on the Presidential Fitness Test
- Demonstrate proper aerobic techniques
- Apply proper warm-up and safety procedures at all times

### Physical Education Grades 9-11

- Demonstrate basketball skills
- Demonstrate team handball skills
- Demonstrate hockey skills
- Demonstrate proper technique in Pickle Ball
- Demonstrate volleyball techniques
- Demonstrate softball techniques
- Demonstrate proper technique in the polka, swing, schottische, and waltz
- Demonstrate proper technique in archery
- Demonstrate proper technique in golf
- Demonstrate proper technique in badminton
- Demonstrate proper technique in track and field skills
- Participate in aerobic dance and tai-Bo
- Demonstrate proper soccer technique
- Demonstrate proper technique in weight training

### Spanish I and All Spanish Courses

- Learn to converse using a prescribed vocabulary list
- Write an essay, letter, poem, song, story, description, etc. using a prescribed vocabulary list
- Read and comprehend a story, cultural excerpt, dialogue, etc. using a prescribed vocabulary list and context clues
- Use listening comprehension skills to accurately respond to oral activities using a prescribed vocabulary list and context clues
- Apply proper usage and word order of various parts of speech (subjects, objects, articles, prepositions, verbs, adjectives, adverbs) in speaking and writing
- Use the correct pronunciation of the letters in the Spanish alphabet when speaking
- Apply proper "intonation" when speaking
- Recognize and effectively use Spanish idioms
- Identify and properly use cognates in speaking, reading, writing and listening
- Apply proper usage of masculine and feminine nouns, articles, pronouns and adjectives, when speaking, writing, and conversing
- Learn or review the present tense of regular, stem changing and irregular AR, ER, and IR verbs, and properly use in writing and speaking
- Learn about the role and contributions of other cultures in today's world
- Understand beliefs and perspectives of other cultures
- Become familiar with cultural characteristics of the language
- Learn about Spanish speaking cultures and creatively present the information learned through projects
- Learn about careers involving the Spanish language

### Spanish 2

- Learn the preterite (past) and imperfect tenses of regular, stem changing, and irregular AR, ER, and IR verbs, and apply when speaking and writing
- Learn the future and conditional tenses of regular, stem changing and irregular AR, ER, and IR verbs, and apply when speaking and writing
- Learn to properly use affirmative and negative commands when speaking

### Spanish 3 and 4

- Continue properly using the verb tenses learned in Spanish II in speaking and writing
- Learn and properly use the present and past perfect tenses when speaking and writing
- Learn and properly use the subjunctive mood in all tenses when speaking and writing
- Be able to defend opinions in writing and speaking
- Write detailed instructions
- Read and understand texts without translating
- Write a formal composition
- Research topics in Spanish
- Paraphrase to ensure understanding

### All Technology Education Courses

- Learn about career opportunities in the technology education areas
- Understand that the parts of a technology system work together to produce a result
- Be able to apply problem-solving strategies
- Understand that technology can have positive and negative effects

- Demonstrate proper and safe use of tools, computers, and equipment
- Demonstrate team work
- Set and meet goals and objectives

### **Introduction to Technology (4- part course): Part 1 Communications**

- Plan and design a desktop publishing project
- Learn about proper operation of 35mm camera
- Understand how to get information from a set of blueprints

### **Introduction to Technology: Part 2 Construction**

- Understand the scope of construction, the people, materials, and technology needed
- Understand what kinds of structural materials are used in construction systems
- Understand how construction projects are initiated
- Understand the types of working drawings

### **Introduction to Technology: Part 3 Manufacturing**

- Understand the manufacturing system and its impact on their lives
- Understand how ideas are developed into products
- Understand the major steps involved in engineering a new product

### **Introduction to Technology: Part 4 Transportation and Power**

- Understand that transportation is used to provide services
- Expand knowledge of power and engines
- Understand a prime mover
- Understand two main types of engines
- Understand systems common to most engines
- Understand the types of power used for different types of transportation

### **Building Trades**

- Select and use saws and other power tools used in construction
- Identify component parts of buildings
- Interpret and follow construction blueprints
- Demonstrate ability to build a structure to requirements
- Install basic plumbing in residential construction
- Install basic electrical components and systems in a home

### **Cabinetry**

- Select and identify cabinetry materials
- Select, adjust, and use wood working tools and machines
- Plan and construct a project from dimensioned lumber
- Make a variety of wood joints
- Read and follow a set of project blueprints

### **Electricity Technology Survey**

- Learn about electrical and electronic components
- Conduct a simulated application of electrical and electronic design
- Apply skills to a residential setting
- Learn about the physical properties of electrical and electronic systems

### **Introduction to Engineering**

- Learn how to use professional level CAD mechanical design software
- Render an assembly drawing using CAD software

### **Manufacturing**

- Select and design a product to be mass produced
- Set up a company and develop a business plan for it
- Explore and select efficient manufacturing processes
- Market and sell a product
- Develop a production control plan for a product

Develop a production control plan for a product

### Metals Technology Survey

- Develop a degree of skill with tools in the machine shop
- Plan and design a new product
- Redesign a product already in use
- Understand the current use of computers in the machining industry
- Understand the role of machine tool industry in the U.S. and the world

### Principles of Engineering

- Design and construct a working device that produces energy
- Design and construct a model that can transport a selected object
- Improve an existing product
- Design and construct a device that solves a problem
- Design and produce a project using a CNC machine
- Design and produce a jig or fixture for a given machining process

### Tech Design: Architecture 1

- Learn about proper home design
- be introduced to Computer Aided Design (CAD)
- Draw a full set of floor plans and elevations using auto CAD software
- Render a 3-D interior model of a home using home design software

### Tech Design: Architecture 2

- Learn how to use professional level CAD architectural software
- Render a 3-D model of a home to include both the interior and exterior of the home
- Understand how CAD has changed the architecture profession

### Tech Design: Industrial Design

- Learn how to use Computer Aided Design software (CAD)
- Render three multi-view drawings using CAD software
- Render three isometric drawings using cad
- Learn how to render three auxiliary drawings using CAD
- Complete an assembly drawing using CAD
- Understand how CAD has changed mechanical design

### Tech Design: Media Production 1

- Learn how to create and edit a movie on the computer
- Understand how digital photography has changed photography
- Plan and render a computer generated animation
- Create an information document using desktop publishing

### Tech Design: Media Production 2

- Understand how digital video editing has changed how movies are edited
- Learn how to create an animation to get a message across to an audience

### Technology Survey

- Understand the five families of technology
- Understand how companies promote and sell products
- Understand the scope of a construction project
- Understand power and transportation as used in transportation
- Demonstrate how ideas are turned into plans for new products

### Welding Technology

- Identify different metals
- Demonstrate proper welding techniques
- Set up and adjust welders
- Design and assemble a shop project
- Understand basic welding equipment and Mig and Tig Welding



- Know the role of welding in industry and everyday life
- Assess the impact of new products on society and quality of life

### **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