

JOHNSON COUNTY
CENTRAL HIGH SCHOOL

A+

COURSEWARE
HANDBOOK

Table of Contents

| | |
|----------------------------------|--------|
| INTRODUCTION | Page 3 |
| A+ FOR CREDIT RECOVERY | Page 4 |
| A+ FOR ENRICHMENT OR ADVANCEMENT | Page 4 |
| A+ COURSE OFFERINGS | Page 5 |
| CLASS ASSIGNMENTS (ASSESSMENTS) | Page 6 |

INTRODUCTION

What is A+? A+ is a computer software purchased by JCC for use as a “curriculum” enhancement for JCC students. The administration and Board of Education selected this program to be used in a variety of ways.

A+ is committed to providing educators and students with a comprehensive learning approach to classroom and lab environments that allows individualized instruction among a widely diverse group of students. The myriad of assessment and reporting functions within the A+ courseware allow educators to monitor each student’s progress and tailor lesson plans specifically designed to meet each student’s individual needs.

Addressing the individual needs of students is a challenge to educators everywhere. The A+ courseware program not only provides core curriculum content but also provides assessment tools to match skill levels of all students, whether on a developmental, remedial, or enhanced learning track.

The A+ courseware program consists of extensive core curriculum content for grades 6th – 12th. Supported by an instructional management system, A+ is delivered via the computer.

A+ will be used for educational purposes to assist individual student’s academic needs. At JCC, the main uses are for: 1) credit recovery, 2) resource for teachers, 3) by students with a long period of absences or other extenuating circumstances and taking a class not currently offered.

A+ FOR CREDIT RECOVERY

The priority of JCC offering A+ program is for the benefit of students to recover credits (make-up a failed semester in a particular class). A+ will be offered primarily as a summer program for credit recovery. Summer school runs during the month of June, Monday thru Thursday from 8:00 a.m. to 12:00 p.m. The cost is \$50 per class with a 2 class maximum for the summer. A summer sign up will be available during the month of April. Summer school attendance is strongly encouraged. Students will not be given extra days to complete assignments – students need to complete the classes for the summer by the ending date in June (summer school dates will be announced before students register). If a student completes his/her summer school class work he/she will receive a passing grade of 70% on his/her transcript.

If a student needs to recover make up credit during a school year (not summer school), the student will be required to take the class with the assigned teacher. Only with extenuating circumstances and with prior administrative approval, may a student use A+ for credit recovery during the regular school year. If the student completes the class work during the semester (1st or 2nd semester) he/she will receive a passing grade of 70% on their transcript. When taking an A+ class during the school year the student will take the A+ class during a study hall. The student will not be charged to take A+ during the school year.

A+ FOR ENRICHMENT OR ADVANCEMENT

Many classes offered through A+ are the same classes offered in the regular JCC curriculum. Students are required to take core curricular courses in a regular classroom setting unless there are extenuating circumstances. Administration will approve application on an individual case basis. If approved, the student will not be charged to take any A+ course. If the student completes the class work during the semester (1st or 2nd semester) they will receive the grade earned. Students will take A+ classes during a study hall.

Only with extenuating circumstances and with prior administrative approval may a student take one of the core curricular classes during summer school. The cost is \$50 per class with a 2 class maximum for the summer. Students will not be given extra days to complete assignments – students need to complete the classes for the summer by the ending date in June (summer school dates will be announced before students register). If the student completes class work during the summer session he/she will receive the grade earned.

A+ COURSE OFFERINGS

HEALTH

Health 9

LANGUAGE ARTS

English I

English II

English III

English IV

MATHEMATICS

Beginning Algebra

Advance Algebra

Geometry

SCIENCE

General Science

Biology I

SOCIAL SCIENCES

World History

Geography

American History

American Government

CLASS ASSIGNMENTS (ASSESSMENTS)**BEGINNING ALGEBRA**1st Semester

| | |
|---------------------------|---------------------------|
| Expression and Equations | Exponents and Factors |
| Properties | Order of Operations |
| Numbers and Sets | Absolute Values |
| Problem Solving | Adding Real Numbers |
| Subtracting Real Numbers | Distributive Property |
| Like Terms | Multiply Real Numbers |
| Dividing Real Numbers | Evaluating Expressions |
| From Words to Equations | Properties of Equality 1 |
| Solving Equations 1 | Properties of Equality 2 |
| Solving Equations 1 | Properties of Equality 2 |
| Solving Equations 2 | Properties of Equality 3 |
| Eliminating Fractions | Solving Word Problems |
| Motion Problems | Mixture Problems |
| Ratio and Proportion | Investment Problems |
| The Coordinate Plane | Relations and Functions |
| Function Graphs | Direct Variation |
| Inverse Variation | Linear Equations |
| Graphing with the T-Table | The X and Y Intercepts |
| Slope of a Line | Slope-Intercept Equations |
| Fitting Equations to Data | |

2nd Semester

| | |
|-----------------------------|--------------------------|
| Graphing Inequalities | Solving Inequalities |
| Using Inequalities | Problem Solving |
| Intersections and Unions | Compound Inequalities |
| Equations – Absolute Value | Solving by Graphing |
| Solving by Substitution | Addition and Subtraction |
| Multiplication and Addition | Using Two Variables |
| Coin and Digit Problems | Linear Inequalities 1 |
| Linear Inequalities 2 | Linear Inequalities 3 |
| Rules of Exponents | Polynomial Types |
| Polynomial Operations 1 | Polynomial Operations 2 |
| Scientific Notation | Polynomial Operations 3 |
| Polynomial Operations 4 | Factoring Out Monomials |
| Difference of Squares | Factoring Trinomials |
| Factoring by Grouping | Methods of Factoring |
| Solving by Factoring | |

GEOMETRY1st Semester

| | |
|---------------------------|--------------------------|
| Points, Lines, and Planes | Triangles Inside and Out |
| Segments | Congruent Triangles |
| Geometric Concepts | More About Polygons |
| Angles | Quadrilaterals |

Conditional Segments
 Foundation of Geometry
 Parallelism
 Triangles

Parallelograms
 Special Parallelograms
 Trapezoids
 Transversals

2nd Semester

Similar Polygons
 Right Triangles 1
 Right Triangles 2
 Trigonometric Functions
 Circles
 Solids 2

Circles, Arcs, Sectors
 Circles and Angles
 Areas of Polygons
 Area Revisited
 Solids 1

ADVANCE ALGEBRA

1st Semester

Rules of Algebra
 Algebraic Expressions
 Solving Equations
 Rewriting Formulas
 Properties of Inequality
 Absolute Value Equations
 Problem Solving 2
 Graph Linear Functions
 Graph Linear Inequalities
 Identify Linear Equations
 Direct Variation
 Graphing Systems
 Solving Inequalities
 Three – Variable Equations
 Polynomial Types
 Factoring Quadratics
 Negative Exponents

Real Number Properties
 Algebraic Equations
 Problem Solving 1
 Solving and Graphing
 Inequality
 Absolute Value in Equalities
 Relations and Functions
 Slope of a Line
 Parallel and Perpendicular
 Problem Solving 3
 Graphing Equation Systems
 Addition and Substitution
 Linear Programming
 Exponents
 Polynomial Operations
 Polynomial Equations
 Scientific Notation

2nd Semester

Data Matrix
 Size and Reflections
 Rotation
 Roots and Radicals
 Real Number Properties 2
 Equations
 Complex Numbers 1
 Quadratic Equations 1
 The Discriminant
 Quadratic Equations 3
 Quadratic Relations
 Graphing Parabolas
 Rational Operations 1
 Simplifying Rationals

Matrix Multiplication
 Transformation
 Matrix Addition
 Real Number Properties 1
 Rational Exponents
 Imaginary Numbers
 Complex Numbers 2
 Quadratic Equations 2
 Roots
 Problem Solving
 Parabolas
 Circles
 Rational Operations 2

GENERAL SCIENCE1ST Semester

Scientific Method
 What is Physical Science

 Atoms
 Math in Forces and Motion
 Properties and States of Matter
 Experiments and Data Collection
 Energy
 Forces and Laws of Motion

Elements
 Chemical Compounds,
 Mixture and Solutions
 Chemical Reactions
 Interpreting and Presenting Data
 History of Physical Science
 Forces in Materials
 Introduction to Motion and Forces

2nd Semester

Work and Simple Machines
 Careers in Physical Science
 Astronomy Basics
 Physical Science and Technology
 Light and EM Spectrum
 Sound
 Natural Hazards
 Vision and Light Technology

Electricity
 Magnetism
 Earth Science
 Electric Current and Circuits
 Heat
 Climate and Weather
 Waves
 Electronics

BIOLOGY I1st Semester

Biology Themes
 Cell and Cell Theory
 Scientific Method
 Collect Data
 Design Experiment
 Types of Cells
 History of Biology

Cell Structure and Function
 Energy and Cells
 Cell Division
 Mendelian Genetics
 Molecular Genetics
 Interpreting and Presenting Data

2nd Semester

DNA Genes and Chromosomes
 Patterns of Inheritance
 Overview of Evolution
 Natural Selection and Microevolution
 Extinction, Speciation, and Macroevolution
 Biomes and Biosphere
 Classification, Taxonomy, phylogeny

Energy, Matter and Ecosystem
 Humans and Environment
 Animal Behavior
 Reproduction and Development
 Ecology Overview
 Populations and Communities

WORLD HISTORY1st Semester

The Renaissance
 The Reformation
 The Age of Enlightenment
 The French Revolution 1
 The French Revolution 2

Industrial Revolution 1
 Industrial Revolution 2
 Latin America
 British Reform
 France in the 1800's

Post-Napoleonic France
 China
 Japan
 Asia

Nationalism in Italy
 German Unification
 Austria-Hungary

2nd Semester

Age of Imperialism
 Asian Imperialism
 World War I 1
 World War I 2
 The Russian Revolution
 Between the Wars 1 and 2
 Prelude to War
 World War II 1

World War II 2
 World War II 3
 Postwar Challenges
 The Cold War
 Asian Wars
 Emerging Nations
 Eastern Europe 1
 Eastern Europe 2

GEOGRAPHY

1st Semester

The Study of Geography
 The Tools of Geography
 Physical Features 1
 Physical Features 2
 Physical Features 3
 Earth and Its Weather
 Southwest Asia 1
 Southwest Asia 2

The Former European USSR
 Eastern Europe
 Southeastern Europe
 Central Europe
 Southern Europe
 Western Europe
 Northern Europe
 The British Isles

2nd Semester

South Asia
 India
 Southeast Asia 1
 Southeast Asia 2
 China and Mongolia
 East Asia
 Japan
 Central & Northern Asia
 North Africa
 West Africa

East Africa
 Sahel and Central Africa
 Southern Africa
 Canada and the U.S.
 Mexico & Central America
 The West Indies
 South America 1
 South America 2
 Oceania

AMERICAN HISTORY

1st Semester

Spanish Exploration 1, 2 & 3
 The New England Colonies
 The Southern Colonies
 Slavery in the Colonies
 The American Revolution 1, 2, 3, 4, 5, 6
 The Early 19th Century
 Transportation West
 The Issue of Slavery

England's Rise to Power
 The Middle Colonies
 Life in the Colonies 1 & 2
 Toward Independence 1, 2 & 3
 The Louisiana Purchase
 Moving Westward
 Texas Independence
 The Gathering Storm

The Union is Broken 1 & 2
 The Civil War 1861
 Civil War 1863
 Civil War 1864-65

Secession and War
 Civil War 1862 Parts 1 & 2
 Civil War 1863-64

2nd Semester

Reconstruction 1 & 2
 The Progressive Era
 World War I Parts 1, 2, 3
 The Great Depression 1, 2, 3
 Beginning of World War II
 End of the Pacific
 The Cold War 1, 2, 3, 4
 1960's Johnson – Nixon
 The Cold War

Life on the Plains 1 & 2
 US Imperialism 1 & 2
 The Roaring Twenties Parts 1, 2, 3
 Prelude to War 1, 2, 3
 World War II Parts 1, 2, 3, 4
 The Holocaust
 1960's Kennedy-Johnson
 The Vietnam War
 Richard M. Nixon

AMERICAN GOVERNMENT

1st Semester

Government Functions
 The Nation-State
 Systems of Government 1
 Systems of Government 2
 Origins of Government 1
 Origins of Government 2
 Origins of Government 3
 Origins of Government 4
 Origins of Government 5
 The U.S. Constitution 1

The U.S. Constitution 2
 The Ratification Process
 Bill of Rights Debate
 Amendments 1
 Amendments 2
 Amendments 3
 Amendments 4
 Political Parties
 Political Campaigns
 Political Elections

2nd Semester

Origins of Congress
 The Legislative Branch
 Senate
 House of Representatives
 Origin of the Presidency
 Presidential Powers
 Office of the President
 Presidential Cabinet 1
 Presidential Cabinet 2
 Presidential Cabinet 3
 Executive Agencies

The Judicial Branch
 The Supreme Court
 Lower and Special Courts
 Federal Taxation Power
 Fiscal & Monetary Policy
 State Government 1
 State Government 2
 State Government 3
 State and Local Taxes
 Local Government

ENGLISH I

1st Semester

ENGLISH LITERATURE IX

Dr. Jekyll and Mr. Hyde (All Lessons)
 The Odyssey (All Lessons)
 "The Locket"

ENGLISH SKILLS IX

Reading – Language Arts Terms 1
 Reading – Language Arts Terms 2
 Reading – Common Expressions
 Reading – Story Details and Sequence
 Reading – Purpose in Writing
 Reading – Connotation and Denotation
 Usage – Parts of Speech
 Usage – Punctuation 1
 Usage – Punctuation 2
 Usage – Usage Problems
 Usage – Capitalization
 Usage – Writing Process Overview
 Vocabulary – Spelling Review

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 1
 Nouns and Pronouns 2
 Singular and Plural 1
 Subject-Verb Agreement 1
 Verb Tense 1
 Verb Tense 2

LANGUAGE ARTS KEYBOARD COMPANION VI

Positive and Negative 1
 Questions and Statements 1
 Sentence Combination 1
 Sentence Combination 2
 Sentence Construction 1

WRITING IX

Essay 4
 Essay 5
 Essay 6
 Library
 Sentence Types

2nd SemesterENGLISH LITERATURE IX

Romeo and Juliet (All Lessons)
 Tale of Two Cities (All Lessons)
 “The Masque of the Red Death”

ENGLISH SKILLS IX

Reading – Poetry
 Reading – Antonyms
 Reading – Multiple Meaning Words
 Reading – Synonyms
 Reading – Word Recognition
 Usage – Appositives
 Usage – Clauses
 Usage – Nouns

Usage – Phrases
 Usage – Pronouns
 Usage – Verbs 1
 Usage – Verbs 2

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 3
 Singular and Plural 2
 Subject – Verb Agreement 2
 Subject – Verb Agreement 3
 Verb Tense 3
 Verb Tense 4

LANGUAGE ARTS KEYBOARD COMPANION VI

Questions and Statements 2
 Sentence Combination 3
 Sentence Combination 4
 Sentence Construction 2

WRITING IX

Essay 1
 Essay 2
 Essay 3
 Letters
 Sketches 1

ENGLISH II

1st Semester

ENGLISH LITERATURE X

Great Expectations (All Lessons)
 Julius Caesar (All Lessons)

ENGLISH SKILLS X

Reading – Language Arts Terms 1
 Reading – Language Arts Terms 2
 Reading – Story Elements
 Reading – Main Idea
 Reading – Making Inferences
 Usage – Parts of Speech
 Usage – Parts of Sentence
 Usage – Punctuation 1
 Usage – Punctuation 2
 Usage – Usage Problems
 Usage – Capitalization
 Vocabulary – Letters and Pronunciation

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 4
 Nouns and Pronouns 5
 Singular and Plural 3
 Subject – Verb Agreement 4
 Verb Tense 5

Verb Tense 6

LANGUAGE ARTS KEYBOARD COMPANION VI

Positive and Negative 2

Questions and Statements 3

Sentence Combination 5

Sentence Combination 6

Sentence Construction 3

WRITING X

Essay 1

Essay 2

Essay 3

Creative Writing 1

Using Sources

2nd Semester

ENGLISH LITERATURE X

Huckleberry Finn (All Lessons)

The Jungle (All Lessons)

ENGLISH SKILLS X

Reading – Latin Literature

Reading – Poetry

Reading – Folklore

Reading – Prefixes

Reading – Suffixes

Reading – Words in Context

Usage – Nouns

Usage – Pronouns

Usage – Adjectives

Usage – Verbals 1

Usage – Verbals 2

Usage – Verbs 1

Usage – Verbs 2

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 6

Singular and Plural 4

Subject – Verb Agreement 5

Subject – Verb Agreement 6

Verb Tense 7

Verb Tense 8

LANGUAGE ARTS KEYBOARD COMPANION VI

Questions and Statements 4

Sentence Combination 7

Sentence Combination 8

Sentence Combination 4

WRITING X

Essay 4

Research

Sentence Types

ENGLISH III1st SemesterENGLISH LITERATURE XI

Moby Dick (All Lessons)

Red Badge of Courage (All Lessons)

ENGLISH SKILLS XI

Reading – Language Art Terms 1

Reading – Language Art Terms 2

Reading – Characterization

Reading – Farce and Satire

Reading – Mood and Tone

Reading – Point of View

Reading – Universal Themes

Usage – Parts of Speech

Usage – Usage Problems

Usage – Punctuation 1

Usage – Punctuation 2

Vocabulary – Consonants

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 7

Nouns and Pronouns 8

Singular and Plural 5

Subject – Verb Agreement 7

Verb Tense 9

Verb Tense 10

LANGUAGE ARTS KEYBOARD COMPANION VI

Positive and Negative 3

Questions and Statements 5

Sentence Combination 9

Sentence Combination 10

Sentence Construction 5

WRITING XI

Essay 5

Essay 6

Creative Writing 3

Sentence Types

2nd SemesterENGLISH LITERATURE XI

The House of Seven Gables (All Lessons)

Last of the Mohicans (All Lessons)

ENGLISH SKILLS XI

Reading – American Literature 1

Reading – American Literature 2

Reading – Poetry

Reading – Prefixes

Reading – Suffixes

Usage – Adjectives

Usage – Clauses
 Usage – Nouns
 Usage – Capitalization

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 9
 Singular and Plural 6
 Subject – Verb Agreement 8
 Verb Tense 11
 Verb Tense 12

LANGUAGE ARTS KEYBOARD COMPANION VI

Questions and Statements 6
 Sentence Combination 11
 Sentence Combination 12
 Sentence Construction 6

WRITING XI

Essay 3
 Essay 4
 Research Paper

ENGLISH IV

1st Semester

ENGLISH LITERATURE XII

Gulliver’s Travels (All Lessons)
 Pride and Prejudice (All Lessons)
 “Adventures of the Speckled Band”

ENGLISH SKILLS XII

Usage – Parts of Speech
 Usage – Punctuation
 Usage – Usage Problems
 Reading – Prefixes and Suffixes
 Reading – Genres and Literary Periods
 Reading – Literary Devices
 Vocabulary – Root Words – Word Families

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 10
 Nouns and Pronouns 11
 Singular and Plural 7
 Subject – Verb Agreement 9
 Verb Tense 13
 Verb Tense 14

LANGUAGE ARTS KEYBOARD COMPANION VI

Sentence Combination 13
 Sentence Combination 14
 Sentence Construction 7

WRITING XII

Essay 4
 Essay 6
 Creative Writing 2
 Resumes

2nd SemesterENGLISH LITERATURE XII

Macbeth (All Lessons)
 Jane Eyre (All Lessons)

ENGLISH SKILLS XII

Reading – British Literature 1
 Reading – British Literature 2
 Reading – Drama
 Reading – Poetry
 Reading – Prose
 Usage – Adverbs
 Usage – Nouns
 Usage – Verbs

LANGUAGE ARTS KEYBOARD COMPANION V

Nouns and Pronouns 12
 Singular and Plural 8
 Subject – Verb Agreement 10
 Verb Tense 15

LANGUAGE ARTS KEYBOARD COMPANION VI

Sentence Combination 15
 Sentence Construction 8

WRITING XII

Essay 3
 Essay 5
 Writing a Research Paper

HEALTH1ST Semester (MWF)

Lesson AIDS and HIV
 Lesson Circulation and Respiration
 Lesson Digestion and Excretion
 Lesson Diseases
 Lesson Endocrine and Reproduction
 Lesson Mental Disorders
 Project 1 Family Health
 Project 2 Health Related Issue
 Project 3 Nutritional Analyze
 Readings Aging in America
 Readings Air Quality
 Readings Alcohol
 Readings Childhood and Adolescence
 Readings Cholesterol

1ST Semester (TTH)

Lesson AIDS and HIV
 Lesson Circulation and Respiration
 Lesson Digestion and Excretion
 Lesson Diseases
 Lesson Endocrine and Reproduction
 Project 1 Family Health
 Readings Aging in America
 Readings Air Quality
 Readings Alcohol
 Readings Childhood and Adolescence
 Readings Cholesterol
 Readings Dietary Supplements
 Readings Drug Abuse
 Readings Drugs

Readings Dietary Supplements
 Readings Drug Abuse
 Readings Drugs
 Readings Eating Disorders
 Readings Food Pyramid
 Readings Health Insurance
 Readings Healthy Foods
 Readings Healthy Lifestyle

Readings Eating Disorders
 Readings Food Pyramid

2nd Semester (TTH)

Lesson Human Body 1
 Lesson Human Body 2
 Lesson Human Body 3
 Lesson Social Issues
 Lesson Brain and Nerves
 Lesson Traits
 Project 4 Health Career Outlook
 Readings Hearing Loss
 Readings HIV/AIDS
 Readings Personal Safety
 Readings Physical Activity
 Readings Sports Injuries
 Readings STD's 1
 Readings STD's 2
 Readings Teen Driving
 Readings Tobacco

2nd Semester (MWF)

Lesson Mental Disorders
 Lesson Human Body 1
 Lesson Human Body 2
 Lesson Human Body 3
 Lesson Social Issues
 Lesson Brain and Nerves
 Lesson Traits
 Project 2 Health Related Issue
 Project 3 Nutritional Analyze
 Project 4 Health Career Outlook
 Readings Health Insurance
 Readings Healthy Foods
 Readings Healthy Lifestyle
 Readings Hearing Loss
 Readings HIV/AIDS
 Readings Personal Safety
 Readings Physical Activity
 Readings Sports Injuries
 Readings STD's 1
 Readings STD's 2
 Readings Teen Driving
 Readings Tobacco