Nebraska Academic Pentathlon 2014-15

"Ingenuity and Innovations"

Grades 6, 7, 8

http://www.usad.org/Get-Involved/Related-Programs/Pentathlon.aspx

Nebraska competition April 2, 2015

Nebraska Super Quiz April 9, 2015

Info Packet...

1. Register your school at the national web site by December 22, 2014
http://www.usad.org/Get-Involved/Related-Programs/Pentathlon.aspx

2. First year teams...Complete the enclosed Grant Authorization Form for a $100 registration fee by December 22, 2014.
Send to:
ESU #3 c/o J. Thomsen
6949 S. 110th Street
Omaha NE 68128

Or

Email to jthomsen@esu3.org

3. Nebraska SuperQuiz Competition is April 9, 2015 @ ESU #3, 6949 S. 110th Street Omaha NE. Nebraska Super Quiz competition registration at www.esu3.org, Click "Workshops" and look for "Nebraska USAD Pentathlon 2014-2015 Competition and Super Quiz @ ESU #3" and click *Register For This Event.*

4. See enclosed "Ingenuity and Innovations", 5 subject outlines:
   - Mathematics
   - Science
   - Social Studies
   - Literature
   - Fine Arts

Downloadable pdf's of all subject area study materials available after national registration

The Pentathlon is part of the *National Academic Decathlon*
http://www.usad.org

USAD
ACADEMIC DECATHLON®

USAD Pentathlon 2014-2015 Competition Year

The curricular theme for 2014–2015 is *"INGENUITY AND INNOVATIONS"* which runs parallel to the high school Academic Decathlon® theme. The Pentathlon competition is comprised of five academic events: Fine Arts (Art and Music), Literature, Mathematics, Science, and Social Science.

The Pentathlon consists of a self-contained curriculum for the subjects listed above, and the materials will be available for downloading in PDF documents only beginning in mid-September 2014. ***The fee for registering your team and receiving your site license for downloading materials is $445.00. The $445.00 includes registering your first team with USAD and unlimited copying ability for the curriculum.*** Registration of additional teams from the same school is $120.00 per team or $20.50 for each additional student if you do not have a full additional team. **The featured novel this year is "Treasure Island" by Robert Louis Stevenson, Dover Thrift Editions – ISBN-10 #0486275590 or ISBN-13 #978-0486275598.**

All competitions for the USAD Pentathlon except for the National competition will be held online and are strictly voluntary. Competitors are eligible to win team and individual medals for their efforts during the Regional, State and National competitions.

Practice Competition – January 22, 2015
Essay for Regional Competition – February 10, 2015
Regional Competition – February 24, 2015
Essay for State Competition – March 19, 2015
State Competition – April 2, 2015
Essay for National Competition – April 30, 2015
2nd Annual National Competition – May 15 & 16, 2015 – Location: Texas

The USAD Pentathlon teams should consist of a maximum of nine team members and a minimum of six team members. Each team must consist of at least two "A" students, at least two "B" students and at least two "C or below" students. The team score will be determined by the sum of the top two student scores in each GPA category. A perfect team score is 30,000 points (6 students x 5 events x 1000 points possible per event). Teams may field up to 12 students in the Practice and Regional rounds of competition. Teams may have a maximum of 9 students (3 at each level) in the State and National competitions.

1. **Literature:** Students will not only write a short essay but will also participate in a multiple choice test which will include 30 questions with a value of 20 points each. Students will be allowed 30 minutes to complete their essay and 20 minutes to complete their objective test. Highest combined possible score is 1000 points.
2. **Mathematics:** 35 problems with a value of 28.57 points each.
3. **Science:** 50 questions with a value of 20 points each.
4. **Social Science:** 50 questions with a value of 20 points each.
5. **Fine Arts:** 50 questions with a value of 20 points each.

A student's maximum possible score is 5000 points (5 events x 1000 points)

The "focus semesters" for GPA computation are the fall and spring semester grades of the previous year plus any summer school grades from the session preceding the current grade. If the contestant is an eighth grader in September of the competition year, then the semesters that are used for GPA computation are all of the seventh grade semesters. Likewise, if the contestant is a seventh grader in the fall, the focus period for GPA computations includes all of the sixth grade semesters. This same "one year rule" applies to all students. When computing the GPA, there is no rounding up. Thus, a 2.9974 is a 2.99, or Varsity. A grade given in a summer school class taken as a repeat course is used in computing GPA. The makeup class grade is counted in whatever year the class was originally taken. If the summer class is not a repeat class, it is included in the GPA for the following year. If a student failed seventh grade, then repeated and passed, use the repeat grades.

The only courses to be used to determine GPA are: Language Arts (English and Reading), Mathematics, Science, Social Studies, Foreign Language, Art History/Appreciation, and Music History/Appreciation. If Language Arts consists of just English, only use this grade. Regardless of the system used to determine a GPA locally, these criteria must be followed to ensure uniformity and equity among all participants in the USAD Pentathlon.

If you have any questions, please feel free to contact us at: pentathlon@usad.org or 866-511-8723.

USAD ACADEMIC PENTATHLON™

2014 – 2015 SUPPLY GRANT AUTHORIZATION FORM

ISSUED THROUGH USAD

Due December 22, 2014

Our school is requesting to be considered for a *Supply Grant*, issued through the Academic Pentathlon™.

The grant will provide our school with the necessary curriculum at no charge for the 2014-2015 curriculum year. Our school will still be responsible to register our team at a discounted rate of $100.00 for the 2014-2015 school year.

The 'grant kit' includes the following necessary curriculum materials issued in Electronic Download format only:

- Pentathlon Curriculum:
  - ✓ Fine Arts
  - ✓ Literature Guide
  - ✓ Mathematics Guide
  - ✓ Science Resource Guide
  - ✓ Social Studies Resource Guide

To assist you with the Fine Arts section this year we will also provide you with the electronic download version of the:

- ✓ Art Reproductions Booklet (Full High School Decathlon guide)
- ✓ Music CD (Full High School Decathlon CD)

Note: This year's novel is: "*Treasure Island*" by Robert Louis Stevenson, ISBN 10 #0486275590 is not included in the grant package.

Please respond to the following questions with a yes/no answer. Date application completed: _____

1. Has the school officially registered with the Academic Pentathlon Organization?	☐ Yes ☐ No
2. Has the school assigned a teacher/coach to the Pentathlon team?	☐ Yes ☐ No
3. Are students able to travel to the National competition if the team qualifies?	☐ Yes ☐ No

By signing this agreement, our school certifies that we are a new school to the Academic Pentathlon.

We hereby certify that our school is formally registering for the 2014-2015 Academic Pentathlon.

Return this form to John Thomsen at ESU3, 6949 S. 110th Street, La Vista, NE 68128 or jthomsen@esu3.org.

Name of School: _____

School Address: _____
Street City State Zip

School Phone: _____ County: _____ School District: _____

Type of School: ☐Public ☐Private ☐Charter ☐Other (explain) _____

Grades Served (Mark all that apply): ☐6th ☐7th ☐8th School Enrollment (Equal to marked boxes): _____

Coach: _____ School Principal: _____

Coach's Phone: _____ Coach's Email: _____

Coach Signature (required): _____

Principal Signature (required): _____

Date Received: _____ Date Materials Sent: _____ Form will not be accepted if altered in any way.

Getting Started

The Pentathlon consists of a contained curriculum for all five subjects. The materials will be available for downloading in PDF format (music CD files in mp3 format) beginning in mid-September each year. The site license fee allows you to download as many copies as needed. Novels may be purchased via online vendors such as Amazon or via your regular school vendors. The included insert addresses the current year's curriculum theme, the registration fee(s) associated with the Pentathlon program, and information about how you will receive your curriculum materials after registering your team. All competitions for the pentathlon will be held online and are strictly voluntary.

Practice Competition – January
Essay for State Competition – February
State Competition – March
National Competition – April

Who's Eligible?

The "focus semesters" for GPA computation are the fall and spring semester grades of the previous year plus any summer school grades from the session preceding the current grade. If the contestant is an eighth grader in September of the competition year, then the semesters that are used for GPA computation are all of the seventh grade semesters. Likewise, if the contestant is a seventh grader in the fall, the focus period for GPA computations includes all of the sixth grade semesters. This same "one year rule" applies to all students. When computing the GPA, there is no rounding up. Thus, a 2.9974 is a 2.99, or Varsity. A grade given in a summer school class taken as a repeat course is used in computing GPA. The makeup class grade is counted in whatever year the class was originally taken. If the summer class is not a repeat class, it is included in the GPA for the following year. If a student failed a grade, then repeated and passed, use the repeat grades.

The only courses to be used to determine GPA are: Language Arts (English and Reading), Mathematics, Science, Social Studies and Foreign Language. If Language Arts consists of just English, only use this grade. Regardless of the system used to determine a GPA locally, these criteria must be followed to ensure uniformity and equity among all participants in the USAD® Pentathlon.

If you have any questions, please feel free to contact us at: info@usad.org or 866-511-8723. We are more than happy to provide additional information about the Pentathlon program as well as answer any questions you may have along the way!

NASSP 2013-2014

USAD Vision

USAD provides students of all learning levels the opportunity to excel academically through team competition.

USAD Mission

The purpose of the United States Academic Decathlon® is to develop and provide academic competitions, curriculum and assessment to promote learning and academic excellence through teamwork among students of all achievement levels.

United States Academic Decathlon®
PO Box 1834
Council Bluffs, IA 51502-1834
Phone: (866) 511-8723 ▪ Fax: (712) 366-3701
http://www.usad.org/competition/pentathlon.asp

Academic Pentathlon™

The premier scholastic competition for middle school students!

USAD PENTATHLON

For 6th, 7th, & 8th Grade Students!

SCIENCE
MATHEMATICS
SOCIAL STUDIES
LANGUAGE/LITERATURE
MUSIC/ART

INTRODUCING THE USAD PENTATHLON

Academic Pentathlon™, the newest program of United States Academic Decathlon* and premier national scholastic competition for middle school students, was created to provide opportunities for students to experience the challenges of rigorous team and individual competition. The USAD curriculum addresses a number of National Education Content & Curriculum Standards (http: //usad.org/Curriculum/Standards.asp). Each student competes in five events, which are Language and Literature, Mathematics, Music, Science, and Social Science.

The five-event academic program strives to foster a greater respect for knowledge, to promote wholesome inter-school academic competition, and to further develop student communication skills. A unique aspect of Academic Pentathlon is that it is designed to include students from all academic abilities. A new theme of study is established every year with topics that are relevant and challenging. The Pentathlon theme parallels that of the high school Academic Decathlon® program. Pentathlon teams are encouraged to partner with local high school AD teams, perhaps having AD students serve as mentors to Pentathlon students. Gold, silver, and bronze medals are awarded for individual events and total scores. Overall individual winners are recognized as well as champion teams. This very broad base of awards allow for major recognition of academic accomplishment.

NEBRASKA PENTATHLON

Questions to John Thomsen, ESU #3
jthomsen@esu3.org

What Does Pentathlon Look Like?

The USAD® Pentathlon teams should consist of a maximum of nine team members and a minimum of six team members. All students must be currently enrolled in grades 6-8. Each team must consist of at least two "A" students, at least two "B" students and at least two "C or below" students. The team score will be determined by the sum of the top two student scores in each GPA category. A perfect team score is 30,000 points (6 students x 5 events x 1000 points possible per event). The GPA Calculation Form can be found on the USAD Pentathlon web page.

In many schools, tryouts for final team positions occur in the early Spring. Thus, substantially more than the nine students that make up the final state level competition team, can be involved in each school's program. Teams advance through local, regional and state levels of competition. The state champions compete in the national finals. ALL Pentathlon competitions take place online in a virtual testing environment, so there is no travel required for teams!

Language/Literature (Essay):
Students will select one out of three prompts based on the novel. Students are allowed 50 minutes to complete their essay. Highest score possible is 1000 points.

Mathematics:
35 problems with a value of 28.57 points each.

Science:
50 questions with a value of 20 points each.

Social Studies:
50 questions with a value of 20 points each.

Art/Music:
50 questions with a value of 20 points each.

A student's maximum possible score is 5000 points (5 events x 1000 points)

What Does Academic Pentathlon™ Do for Students?

Supports team spirit and encourages a sense of belonging.

Creates an academic vision for the school and community at large.

Promotes the use of higher-level thinking skills to create excitement and interest.

Produces a feeling of success & pride.

Promotes individual accountability while, at the same time, providing the dynamics of group/team interaction.

Stimulates personal student growth & encourages learning while having fun.

Academic Rewards of Pentathlon

- ✓ Learning beyond the normal curriculum
- ✓ Meets national content/curriculum standards
- ✓ Preparation for high school and life skills
- ✓ Socialization with peers and community
- ✓ Local, state and national competitions
- ✓ Individual and team medals/trophies
- ✓ School recognition

USAD Academic Pentathlon
2014-2015

Ingenuity and Innovations

Mathematics

- Quantitative and Algebraic Reasoning
- Geometry
- Probability and statistics
- Problem solving

Science

Energy Innovations

- Thermodynamics and Electrodynamics
- Electromagnetics
- Introduction to Nuclear Energy
- Renewable Energy

Social Science

Doodads, Gizmos, and Gadgets:
Inventions and Inventors that Changed the World

Literature

Idealism, Naturalism, and Adventure
Novel: *Treasure Island* by Robert Louis Stevenson
Selected Readings from the Romantic Period
Essay prompts based on the novel *Treasure Island*

Fine Arts

Creativity, Inspiration, and Imagination

- Brief History of Art
- Innovations in Art and Music from Ancient Civilizations to the Modern Era

Mathematics

Quantitative and Algebraic Reasoning, Geometry, Probability and Statistics, and Problem Solving

INTRODUCTION

Section 1 – QUANTITATIVE AND ALGEBRAIC REASONING **25%**

A. Introduction
B. Arithmetic Operations
    1. Addition
    2. Subtraction
    3. Multiplication
    4. Division
C. Counting Numbers
    1. Prime Numbers
    2. Composite Numbers
    3. Greatest Common Factor
D. Types of Numbers
    1. Whole Numbers
    2. Integers
    3. Rational Numbers
    4. Irrational Numbers
E. Exponentiation of Numbers
    1. Exponent
    2. Base
F. Radicals and Roots
    1. Radical
    2. Radicand
    3. Index
    4. Square Root
    5. Cube Root
G. Order of Operations
    1. PEMDAS
H. Single Variable Equations
    1. One-Step Variable Equations
    2. Two-Step Variable Equations
I. Linear Equations
    1. Slope
    2. y-intercept
    3. Function Table
J. Section 1 Summary

Section 2 – GEOMETRY **35%**

A. Introduction
B. Points and Lines
    1. Point
    2. Line
    3. Line Segment
    4. Midpoint
C. Rays and Angles
    1. Ray
    2. Angle
    3. Vertex
D. Measuring Angles
    1. Right Angles
    2. Acute Angles
    3. Obtuse Angles
    4. Vertical Angles
    5. Supplementary Angles
    6. Complementary Angles
    7. Bisector
E. Transversals
    1. Corresponding Angles
    2. Adjacent Angles
    3. Alternate Interior Angles
    4. Alternate Exterior Angles
F. Triangles
    1. Right
    2. Acute
    3. Obtuse
    4. Equilateral
    5. Isosceles
    6. Scalene
    7. Similar Triangles
    8. Pythagorean Theorem
    9. Perimeter
    10. Area
G. Polygons
    1. Vertex
    2. Diagonal
    3. Convex
    4. Concave
    5. Interior Angle Sums
H. Quadrilaterals
    1. Parallelogram
    2. Rectangle
    3. Square
    4. Rhombus

5. Trapezoid
6. Kite

I. Circles
   1. Origin
   2. Radius
   3. Chord
   4. Diameter
   5. Circumference
   6. Area

J. Section 2 Summary

Section 3 – PROBABILITY AND STATISTICS **25%**

A. Introduction
B. Calculating Probability
   1. Mutually Exclusive Events
   2. Complementary Events
   3. Independent Events
   4. Dependent Events
C. Measures of Central Tendency
   1. Mean
   2. Median
   3. Mode
   4. Range
   5. Outliers
D. Stem-and-Leaf Plots
   1. Stems
   2. Leaves
E. Box-and-Whisker
   1. Median
   2. Lower Extreme
   3. Upper Extreme
   4. Lower Quartile
   5. Upper Quartile
   6. Interquartile Range
F. Bar Graphs
   1. Group Data Axis
   2. Frequency Axis
G. Scatterplots
   1. Line of Best Fit
   2. Positive Correlation
   3. Negative Correlation
   4. No Correlation
H. Section 3 Summary

Section 4 – PROBLEM SOLVING **15%**

A. Introduction
B. Word Problems
    1. Proportions
    2. Time
    3. Patterns
    4. Sale Price
    5. Simple Interest
C. Strategies for Problem Solving
D. Section 4 Summary

Science

Innovations in Energy

I. TRADITIONAL ENERGY GENERATION 20%
- A. Energy and Energy Consumption
- B. Units of Energy and Power
- C. Turbines, Pumps, and Compressors

II. THERMODYNAMICS 20%
- A. Temperature, Heat, and the First Law of Thermodynamics
  1. What is Temperature?
  2. Measuring Temperature
  3. Thermal Equilibrium
  4. Thermal Expansion
  5. Heat Transfer
  6. The First Law of Thermodynamics
  7. The Kinetic Theory of Gases
- B. Entropy and the Second Law of Thermodynamics
  1. Entropy
  2. Second Law of Thermodynamics and Entropy
  3. Mechanical Examples of Entropy

III. ELECTROMAGNETISM.....20%
- A. The Structure of an Atom
- B. Electric Charge
- C. Magnetism and Magnetic Materials
- D. Electricity and Magnetism
  1. Maxwell's Laws of Electromagnetism
  2. Faraday's Law of Induction

IV. INTRODUCTION TO NUCLEAR ENERGY 30%
- A. The Discovery of Nuclear Energy
- B. The Fundamentals of Nuclear Energy
  1. The Structure of Atoms
  2. What is an Element?
  3. Radioactive Elements
  4. Nuclear Fission
  5. Nuclear Fusion
  6. Thermonuclear Fusion
- C. Components of a Nuclear Reactor

V. RENEWABLE ENERGY 10%
- A. Wind Power
- B. Solar Energy
- C. Solar-Powered Transportation
- D. Biofuels
- E. Fuel-Cell Cars

VI. CONCLUSION

Social Science

Doodads, Gizmos, and Gadgets

I. ANCIENT INVENTIONS AND INNOVATIONS.....30%
- A. The Sumerians
  - 1. Cuneiform
  - 2. The Wheel
- B. The Egyptians
  - 1. Hieroglyphics
  - 2. Papyrus
- C. The Greeks
  - 1. Hippocrates and Medicine
  - 2. Achievements in the Golden Age of Greece
  - 3. Archimedes: Weapons of War and Simple Machines
- D. The Romans
  - 1. Concrete and Roads
  - 2. Aqueducts

II. THE MIDDLE AGES' INVENTIONS AND INNOVATIONS..... 25%
- A. From Alchemy to Chemistry
- B. Medicine and Surgery in the Middle Ages
- C. Agricultural Innovations in Europe

III. THE RENAISSANCE'S INVENTIONS AND INNOVATIONS 25%
- A. Humanism
- B. Instruments of Exploration
- C. The Development of Paper
- D. The Movable-Type Printing Press – Johann Gutenberg
- E. Oil Paintings - Jan van Eyck

IV. THE SCIENTIFIC REVOLUTION 15%
- A. The Ptolemaic Theory
- B. Galileo Galilei and the Telescope
- C. Zacharias Janssen and the Microscope

V. OVERVIEW OF INNOVATIONS AND INVENTIONS- 18TH THROUGH 20TH CENTURY..... 5%
- A. Science influences thought in the Age of Reason
- B. The Industrial Revolution
- C. Inventions of the 20th century

Literature

Novel: Robert Louis Stevenson's *Treasure Island*

I. CRITICAL READING 20%
- A. Purpose and Main Idea
- B. Structure
- C. Restatement of Information
- D. Genres and their Characteristics
- E. Language and Tone
- F. Grammar and Syntax
- G. Vocabulary in Context
- H. Diction

II. THE ROMANTIC MOVEMENT..... 40%
- A. The Romantic Movement
- B. Influential Romantic Writers
- C. Historical Context
- D. Robert Louis Stevenson's *Treasure Island*
    1. Robert Louis Stevenson's Biography
    2. Summary and Analysis
    3. Characters
    4. Settings
    5. Themes
    6. Structure

III. SELECTED POETRY AND SHORT WORKS OF LITERATURE..... 40%
- A. Keywords
- B. Author Biographies
    1. William Wordsworth
    2. Percy Bysshe Shelley
    3. John Keats
    4. Edgar Allan Poe
- C. "Steamboats, Viaducts, and Railways" William Wordsworth
- D. "Ozymandias" Percy Bysshe Shelley
- E. "*La Belle Dame sans Merci*" John Keats
- F. "The Tell Tale Heart" Edgar Allan Poe

Fine Arts

Creativity, Inspiration, and Imagination

ART

I. ARTISTIC INNOVATIONS OF THE MEDITERRANEAN WORLD.....10%

A. The Ancient World - Overview
   1. The Ancient Mediterranean World
   2. Technology
   3. Trade
   4. Culture

B. Selected Works of Art
   1. SELECTED WORK: *First Sarcophagus of Tutankhamun, Egypt, Eighteenth Dynasty*
      a. Egyptian Religious Beliefs
      b. Innovations in Mummification
      c. The Treasure of King Tutankhamun's Tomb
      d. First Sarcophagus of Tutankhamun: Analysis
   2. SELECTED WORK: The Pantheon, Rome, Italy, c.126 CE
      a. Roman Development of Concrete
      b. The Pantheon: Analysis
      c. Later Loss and Ultimate Rediscovery of Concrete

II. ARTISTIC INNOVATIONS OF THE RENAISSANCE.....10%

A. The Renaissance – Overview
   1. The Middle Ages
   2. Transition from the Middle Ages to the Renaissance
   3. Renaissance Humanism
   4. Northern European vs. Italian Renaissance Art and Culture

B. Selected Works of Art
   1. SELECTED WORK: *Ornithopter Wings*, Leonardo da Vinci, sketch from the *Codex Atlanticus*, Fol.309 verso, 1478-1519
      a. Evolving Concept of the "Artist" in the Italian Renaissance
      b. Technological Advances in the Renaissance
      c. Leonardo da Vinci: Biography and Career
      d. *Ornithopter Wings*: Analysis
   2. SELECTED WORK: *The School of Athens*, Raphael (Raffaello Sanzio), c. 1508–11
      a. Development of Linear and Atmospheric Perspective in the Renaissance
      b. Fresco Painting
      c. Raphael: Biography and Artistic Career
      d. *The School of Athens*: Analysis

III. EIGHTEENTH- AND NINETEENTH-CENTURY ARTISTIC INNOVATIONS.....10%

A. The Eighteenth and Nineteenth Centuries – Overview

1. The Enlightenment and its Legacy
2. Eighteenth-Century Revolutions and Political Transformations
3. Technology and Industrialism
4. The Evolution of Art

B. Selected Works of Art

1. SELECTED WORK: *Iron Bridge*, Abraham Darby III and Thomas F. Pritchard, Coalbrookdale, England, 1779
   a. The Industrial Revolution in England
   b. Engineering and Material Innovations
   c. Darby and Pritchard: Biographies and Careers
   d. *Iron Bridge*: Analysis
2. SELECTED WORK: *Ophelia, Study No. 2*, Julia Margaret Cameron, 1867
   a. The Development of Photography
   b. Effects of Photography on Art
   c. Julia Margaret Cameron: Biography and Artistic Career
   d. *Ophelia, Study No. 2*: Analysis
3. SELECTED WORK: *La Gare Saint-Lazare*, Claude Monet, 1877
   a. Impressionism
   b. The Development of Paint in Collapsible Metal Tubes
   c. Claude Monet: Biography and Artistic
   d. *La Gare Saint-Lazare*: Analysis

IV. ARTISTIC INNOVATIONS OF THE TWENTIETH CENTURY.....10%

A. The Twentieth Century – Overview

1. War and Politics
2. Technology
3. Modernism

B. Selected Works of Art

1. SELECTED WORK: *Still Life with Chair Caning*, Pablo Picasso, 1912
   a. The Development of Cubism
   b. Collage as a New Artistic Process
   c. Picasso: Biography and Artistic Career
   d. *Still Life with Chair Caning*: Analysis

MUSIC

V. MUSIC AND THE MIDDLE AGES.....10%
- A. Society: The Medieval World
  - 1. Feudalism
  - 2. Political Power and the Catholic Church
  - 3. Rise of Kings in European Society
  - 4. Towns and Universities
- B. Music in the Catholic Church
  - 1. Elements of the Liturgy
  - 2. Gregorian Chants
- C. Innovations in Medieval Music
  - 1. Notation
  - 2. LISTENING EXAMPLE 1: "Dies Irae" – Excerpt (Thirteenth Century)– Anonymous
  - 3. The Rise of Polyphony
  - 4. Medieval Music and Social Classes

VI. MUSIC AND THE RENAISSANCE.....10%
- A. Emergence of Humanism
- B. The Reformation and Counter-Reformation
- C. Innovations in Renaissance Music
  - 1. Josquin des Prez
  - 2. Palestrina and the Polyphonic Mass
    - LISTENING EXAMPLE 2: *Missa L'home armé*, "Kyrie" (1570) – Giovanni Pierluigi da Palestrina
- D. The Italian Madrigals

VII. MUSIC AND THE BAROQUE 10%
- A. Baroque Society: Absolutist Kings, War, and the Scientific Revolution
- B. Innovations in Baroque Music
  - 1. The Camerata
  - 2. The Development of the Opera
  - 3. Baroque Instruments
    - a. Keyboards
    - b. The Violin Family
  - 4. The Concerto
    - a. Vivaldi and the Pietà
    - b. LISTENING EXAMPLE 3: *Le Quattro Stagioni* (*The Four Seasons*):"La Primavera" ("Spring"), Op. 8, No. 1, RV 269 – Mvt. I (1725)– Antonio Vivaldi

VIII. MUSIC AND THE CLASSICAL ERA.....10%
- A. Society: The Classical Era and the Age of Reason
- B. Innovations in Classical Music
  - 1. Emphasis on Architecture

a. Sonata Form
b. Rondo Form

2. The Creation of the Piano

LISTENING EXAMPLE 4: Piano Sonata No. 11 in A Major, K. 331 – Mvt. III "Rondo alla Turca" (1783) – Wolfgang Amadeus Mozart

3. Music and Classical Society
    a. Concerts and Concert Halls
    b. Music Publishers
4. Classical Genres
    a. The String Quartet
    b. Piano Concertos
    c. Symphonies and Symphonists

IX. MUSIC AND THE ROMANTIC ERA.....10%

A. Society: The Romantic Era
    1. Impact of the Industrial Revolution
    2. Romanticism and Self-Identity
B. Innovations in Romantic Music
    1. New Tools for Artistic Expression
        a. Emotionalism
        b. Emphasis on Instrumental Music
        c. Changes in Instrument Design
    2. The Romantic Miniature
        a. Character Pieces
        b. The Lied
        c. LISTENING EXAMPLE 5: "Erlkönig," Op. 1, D. 328 (1815) – Franz Schubert

    3. Building a Concert-Going Public
        a. Civic Orchestras
        b. Conductors
        c. Rise of the Recital
        d. Music Education and Conservatories

XII. CONCLUSION