

Grade 12 Unit 2

Arabic

الوحدة الثانية:

ستتعرف المتعلمة في هذه الوحدة على الأدب الأندلسي المتمثلة في قصيدتي "جداك الغيث" و"نثر الجو على الأرض البرد" وتبين المعنى الإجمالي للنص الشعري، موضحة علاقة الفكر ببعضها البعض، مفسرة مفرداتها من خلال السياق، مستنتجة الدلالات الإيحائية. كما تتعرف ظن وأحواتها ووظيفتها النحوية وتوظفها في جمل من تعبيرها، كما تتتبع تقنية الوصف من خلال استخدام الكاتب للتقنيات البلاغية. كما تكتب موضوعاً وصفياً. كما تقرأ قصة السّماور وتحللها وتتعرف شخصياتها وتحللها وتبين غرض الكاتب من تأليفها، وتتعرف الكاتب وبيئته ونشأته، وتكتب قصة مكتملة العناصر. كما تقرأ نصّاً معلوماتياً وتتعرف على خصائص النصّ المعلوماتي، وتفسر مفرداته، مجيبة لأسئلته بلغة عربية فصيحة. كما ستحلل الاستراتيجيات المستخدمة في مادة مسموعة لغرض تقديم المعلومات، أو الإقناع، أو التثقيف، مظهرة إجادتها للغة العربية الفصيحة بالإضافة إلى تقديم عرض شفوي عن شخصية أدبية أو علمية مظهرة إحاطة تامة بالموضوع المطروق.

Islamic

الوحدة الثانية

ستتعلم الطالبة في هذه الوحدة المعنى الإجمالي لسورة النور وتفسر المفردات الصعبة وتبين الآثار السلبية للشائعات على الفرد والمجتمع وتستنتج فضل أم المؤمنين عائشة رضي الله عنها. وتوضح مفهوم السنن الربانية وأقسامها وتدلل على أهمية فهم هذه السنن للفرد والمجتمع. وتميز بين المسؤولية الفردية والجماعية وتوضح مجالات المسؤولية الفردية. وتبين فوائد دراسة مقاصد الشريعة وتحدد علاقة المقاصد والضروريات بغيرها وتحصر على حفظ الضروريات الخمس. وتتعرف على نشأة الشبيخة فاطمة وسيرتها الذاتية وتوضح جوانب شخصيتها وصفاتها وتبين الألقاب التي حصلت عليها والجوائز التشجيعية التي أطلقتها.

Islamic AAL

By the end of this unit students are supposed to cover the following topics:

- The Slander against 'A'ishah (ifk) - exhortation and moral lesson
- Divine Laws (as- Sunan ar- Ra- baniyah)
- Responsibility in Islam
- The five Purposes of Legislation
- Sheikha Fatima Bint Mubarak

English

Students will study poetry that has the theme of 'change'. They will be exploring key features, analyzing intended effects on the reader and understanding how the differing poems can convey differing attitudes and opinions about the topic. This unit will be assessed through the creation of an independent research project which gives students the freedom to explore well known literature throughout the ages.

AP Literature and Composition

Social Commentary and Poetry

Authors throughout history have used literature as a means to comment on both the human condition and societal issues. By studying a variety of works, we will explore issues that confront societies throughout history and humanity at large. Poetry, being one of the most prolific forms of art, spans all genres, subjects, ideals, movements, and societies. Students will study an array of poetry from different literary movements, eras, continents, and socioeconomic backgrounds, including a focus on metaphysical poetry and the significance of its complexity from an artistic standpoint. They will analyze structure, pace, narrative voice, poetic devices and language within poetry.

Math

Business Math

The objective of this unit is to introduce problems of financial accounting such as measuring and reporting issues related to assets and liabilities and preparing the financial statements. Students are expected to gain the ability of using accounting information as a tool in applying solutions for managerial problems, evaluating the financial performance, and interpreting the financial structure.

Pre-Calculus

Polynomial, Power, & Rational Functions: In this Unit the students will

- Analyze graphs of quadratic functions
- Write quadratic functions in standard form and use the results to sketch their graphs
- Find minimum and maximum values of quadratic functions in real-life applications
- Writing and analyzing power functions
- Graph polynomial functions, predict their end behaviour, and find their real zeros using a graph of an algebraic method
- Divide polynomials using long division or synthetic division, to apply the Remainder Theorem, factor theorem and Rational Zero Theorem.

Calculus

Limits and Their Properties Part 2: In this Unit the students will determine continuity at a point and continuity on an open interval, they will determine one-sided limits and continuity on a closed interval. At the end of the Unit the students will understand and use the Intermediate Value Theorem and determine infinite limits and sketch the vertical asymptotes of the graph of a function.

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Physics

Newton's Laws of Motion

This unit is an in-depth look at the laws of motion. Students will differentiate between the three laws and be able to apply these laws to real-world applications. Students will be able to create and interpret free body diagrams, determine equilibrium based on the forces acting on an object, differentiate between the different types of friction and calculate the kinetic friction acting on an object.

PE

Physical Unit

This tag rugby Module helps to achieve the standards set out by SHAPE America, as it will help the students to demonstrate fundamental movement skills in a variety of contexts; cooperate with and encourage classmates; accept individual differences and demonstrate inclusive behaviours; and engage in physical activity for enjoyment and self-expression. The focus will be on developing the skills required to play tag rugby, passing & receiving, communication and tactical awareness. Students will also be required to develop their mental capacity as they demonstrate their ability to both understand and implement tactics in a game situation, and to adapt easily from attacking to defending in a game situation.

AP Computer Science:

Algorithms and Programming

In this unit students will learn about the fundamentals of programming. They will be able to:

-write algorithms using different ways: Pseudocode, programming languages, and formal English language

-define what is meant by programming and languages

-understand and use elements of programming languages such:-loops,selection,iteration

Students will apply these concepts to learn "Python Programming Language" and they will be able to:

1. design, use and evaluate computational abstractions
2. understand several key algorithms [e.g. ones for sorting and searching]
3. make appropriate use of data structures [lists, tables, arrays]
4. understand simple Boolean logic [e.g. AND, OR and NOT] and some of its uses in circuits and programming; understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers
5. understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems
6. understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits

Elective Classes

Art

Students will be given the opportunity to partake in oil painting and watercolor paint workshops. They will then choose a media of preference to complete a painting on canvas. The subject matter will be individual to the student. A condensed and considered list of themes will be issued to the students and they will select one that they feel they will connect with best.

Their design process and problem solving will be documented in their reflective journals and two presentation boards will be required to accompany their final painting. One; a preliminary design sheet and two; a support study sheet.

Students will be introduced to the impressionist artist Claude Monet and his 'Water Lilies' masterpieces as critical references for subject matter.

Drama

Characterization

The students will understand the origins and background of the art of characterization, and learn and practice different methods of characterization, inspired by some of the greatest theatre practitioners in the world. The learners will be required to practice and apply the process of characterisation to all elements of this unit, embodying the art of playing a character with truth and creativity.

French

Mes préférences

This unit will continue to further develop students' listening, speaking, reading and writing skills and will expand their vocabulary, grammar and their cultural competence about France and French culture.

Language content:

Students will learn to express their preferences regarding different aspects of their life, i.e., if they like watching TV, playing sports, etc.

Students will learn to express opinions using different degrees of likes/dislikes, i.e., I like, I like very much, etc.

Grammar:

Students will learn to conjugate some irregular verbs, such as 'faire'

Cultural aspects:

Students will learn about what French teenagers like/dislike

Psychology I

Lifespan Development

This unit provides a comprehensive framework for the consideration of developmental psychology across the lifespan. Throughout this unit students will acquire an in-depth knowledge of developmental psychology for understanding and appreciating their own development.

Psychology II

Personality

This unit explores key themes in the development of personality theory. The psychodynamic, psychosocial, biological, trait, humanistic, and social cognitive approaches to understanding personality are compared and critically evaluated according to the available evidence. Assessment of individuals according to each theory is also critically evaluated. Applications of the personality theories to real-world problems are emphasised in the unit so that students begin to appreciate the importance of understanding differences between people and how these differences drive behavior.

Economics

Money and the role of Financial Institutions.

In unit 2 students will gain an understanding of the role of money and financial institutions in a market economy. Students will explore the basic functions of money and evaluate the role of banks and other financial institutions in the economy. Students will engage in self evaluation and explore the impact choice of occupation has on earnings and the reasons why different occupations have different earnings and how this impacts supply and demand.

Advanced Biology

Immune System

Following the completion of the unit on bacteria and viruses the students will tie these together as the major causes of infectious diseases. We will focus on the transmission of infectious diseases, function of all parts of the Immune system, nonspecific and specific defenses against invading pathogens, types of immunity cells and cell mediated immunity and allergies which occur inside of the human body. This unit will allow students to analyze how their bodies react, treat and properly heal once infected with a pathogen and allow them to identify ways in which they can protect themselves in the future.

Advanced Chemistry

Unit 2: Thermochemistry/ Reaction Rates and Equilibrium

Energy transformations take place continually inside our bodies and in the world around us. For example, you transform the food you eat into useable cellular energy or adenosine triphosphate (ATP). Machines such as automobiles and power tools convert fuel into mechanical energy. In this unit students will learn more about energy transformations including the factors that affect reaction rate, and their kinetics. They will demonstrate an understanding of the energy transformations and kinetics of chemical changes. Students will also be able to determine energy changes for physical and chemical processes and rates of reaction, and will gain an understanding of the dependence of chemical technologies and processes on the energetics of chemical reactions.