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Grade 12 Unit 3 Description
Term 2 2018

<p>English Unit description: Poetry with the theme of 'Change'. Students to study a variety of published poems on this theme, exploring poetic techniques, language, structure and rhyme scheme. They will write PEELA explorations as well as creating their own poems.</p>		
Teacher	Interim Assessment date	Summative Assessment
Miss Loretta Miss Jill Miss Jess	Vocabulary/spelling tests (set and taken every week) Classwork and explorations in student notebooks – marked by 4/2/2018	Students' handwritten poetry project booklets (as per student guidance sheet given at the beginning of term). Due by Weds 7/2/2018

<p>Math Unit description: Business Maths In this unit pupils will recognise the terms used in selling such as cost, wholesale price, markup. They will learn to use the basic markup formula to calculate the cost, operating expenses and the net profit.</p> <p>Unit 3: Exponential & Logarithmic Functions</p> <ul style="list-style-type: none"> · Lesson 3.1 – Exponential Functions · Lesson 3.2 – Logarithmic Functions & Their Graphs Lesson 3.3 – Properties of Logarithmic Functions 		
Teacher	Interim Assessment date	Summative assessment date
Miss Karen (Business) Miss Maha (Pre Cal)	25/1/18	7/2/18

<p>Calculus Unit description: In Term 2 we will study Differentiation. Unit 3 will have students prepare for differentiation by studying the underlying concepts surrounding derivatives. Students will understand the concept of a derivative and its relationship with the slope of a tangent line and secant line. We will study instantaneous rate of change and average rate of change. We will then investigate tangent lines and local linearity, before moving on investigations of slope graphs. Finally, students will be able to use the limit form of the derivative to differentiate.</p>		
Teacher	Interim Assessment date	Summative assessment date
Miss Tara Williams	25/1/18	7/2/18



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AP Calculus

Unit description:

Using derivatives to describe the rate of change of one variable with respect to another variable allows students to understand change in a variety of contexts.

In Unit 3: Differentiation, AP Calculus students build the derivative using the concept of limits and use the derivative primarily to compute the instantaneous rate of change of a function. Students will be able to use different definitions of the derivative, estimate derivatives from tables and graphs, and apply various derivative rules and properties. In addition, students should be able to solve separable differential equations, understand and be able to apply the Mean Value Theorem.

Teacher	Interim Assessment date	Summative assessment date
Miss Catherine	17/1/18 25/1/18	7/2/18

Advanced Chemistry

Unit description: Ionic Compounds and Metals

Students will be able to:

- Identify the significance behind chemical formulas.
- Determine the formula and the name of an ionic compound, including those with transition metals.
- Utilize the periodic table to determine element charges.
- Correlate element name with its symbol.
- Identify the difference between a cation and anion.
- Follow the naming conventions for ionic compounds and oxyanions
- Explain how the electron sea model accounts for the physical properties of metals

Assessment Methods: Written test, lab experiment/ project

Teacher	Interim Assessment date	Summative assessment date
Miss Leen	12 - Jan. 24	12 - Feb. 5

Arabic

Unit description **الوحدة الثالثة**

تشتمل الوحدة الثالثة على مجموعة من الدروس التي تعمل على تطوير المهارات اللغوية للمتعلّمة، وهي دروس من الحديث النبوي الشريف، وقصائد شعريّة من الأدب الأندلسي، وقصة قصيرة هي السّماور، ورواية الأمير الصغير، وبعض النّصوص المعلوماتية مثل نص كيف تكشف المغالطات، ودروس مهارة الاستماع مثل التغلّب على التوتر النفسي، أما التحدث الذي نلتزم فيه المتعلّمة اللغة العربية الفصحى السليمة، فسيكون عن الأدب الأندلسي وشعراء العصر الأندلسي، أما الكتابة فستكون عن السيرة الغيريّة، وكتابة ورقة بحثيّة. أما دروس النحو فتشتمل على (أفعال المقاربة والرجاء والشروع وإن وأخواتها ولا النافية للجنس والجملة الفعلية) وجميعها تخدم مهارة الكتابة حتى تكون حسنة الصياغة والضببط. وستكون الأنشطة التعليمية متنوعة، وذلك عن طريق استخدام التكنولوجيا، ومهارات حل المشكلات، والتحليل والتركيب والتطبيق، والمشاريع التي تخدم المادة، وتنمي الإبداع والابتكار عند المتعلّقات.

سيتم تقييم الطالبات من خلال اختبارات شفويّة وكتابية، واستمارات التقييم التي توضح قياس معايير مهارات القراءة الجهرية والاستماع والتحدث والمهارة الكتابية ومهارة حفظ النّصوص، وجميعها تخدم العملية التعليمية، وتقوي هذه المهارات لدى المتعلّمة.

Teacher	Assessment date
نجاح عبتاوي	30/1/2018
رباب عبيدات	31/1/2018



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Arabic for Non-Arab	
تشتمل الوحدة الثالثة على مجموعة من الأنشطة التعليمية المناسبة للطالبات كما تقوم الطالبة باستخدام برنامج puppet show في تمييز المراحل التي مرت بها وسائل النقل وبالتالي وصف التي مرت بها هذه المراحل وترتبط الوحدة ارتباطاً مباشراً بالمواصلات الحديثة التي تمت في دولة الإمارات كمثال حي عليها وفي القواعد تمييز العدد في حالتي التذكير والتانيث والاعداد من ١١ - ١٠٠٠ وفي الاملاء الهمزة المتوسطة	
Teacher	Assessment date
	الاختبار التشخيصي ٢٠١٨ ١-١٥
	التقويم الاول ٢٠١٨-١-٣٠
	التقويم الثاني ٢٠١٨-٢-٢٨

Islamic	
Unit description:	
<p>الوحدة الثالثة: تتناول الوحدة آيات من سورة النور حيث سيتم حفظ الآيات غيباً وتسميعها ودراسة وتحليل الآيات وتوضيح الدلالات الواردة فيها. وسيتم دراسة البيوع المحرمة والتعرف على المفاهيم التالية (الربا - النجش - اليانصيب - القرض - البيع على البيع - المراهنة والقمار) والقدرة على إصدار الأحكام على المسائل الواردة في الدرس وبيان صور تطبيقية عن هذه البيوع. وشرح وبيان معنى التفكير الإبداعي في الإسلام وأمثلة عن التفكير الإبداعي. التمييز بين الأحلام والرؤى واستنتاج الآداب المتبعة عند رؤية المنامات وقدرة الطالبة على إصدار الحكم على ما يشاهده النائم في منامه. وستكون الأنشطة التعليمية متنوعة وذلك عن طريق استخدام التكنولوجيا ومهارات حل المشكلات والمشاريع التي تخدم المادة وتنمي الإبداع والإبتكار لدى الطالبات. سيتم تقييم الطالبات من خلال اختبارات كتابية وشفوية.</p>	
Teacher	Assessment date
	12 ka 20/2/2018 الثلاثاء
	12 ck 19/2/2018 الإثنين
	12 na 19/2/2018 الإثنين
خلود عبد الرزاق	

Islamic for Non-Arabs	
Unit description: In term two, students are expected to learn about Surat- (An- Noor) . The Prophet methodology in Health Care. Students are supposed to read and recite the Quran properly and understand the Tafseer. Memorize the requested parts in the Quran and Hadith with their explanations and meanings. students learn about Islamic ruling and their purposes(Transactions); The prohibited sales. Students learn about National service as a Sharia duty and a National Requirement. students learn about creative ways of thinking. students will distinguish between visions and dreams. Students are requested to submit their own projects in the specific due date. students are asked to use technology and innovations in their projects.	
Teacher	Assessment date
Majida Lutfi	Assessment : Wednesday 21 Feb 18



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PE Unit description: This 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. Students will also be required to develop their mental capacity as well as their physical fitness throughout a variety of chosen sports.		
Teacher	Interim Assessment date	Summative assessment date
Miss Una Miss Shauna	n/a	12KA,12CK &12NA 5th Feb

Computer Science Unit description: For AP: in this unit students will complete the AP Explore Task in which they have to create a digital artifact about a computing innovations. They have to write a response about the effects of this computing innovation on society, culture, and economy. Non AP: They will create a mini app to solve community issues by participating as teams in technovation 2018 challenge. Students will develop their communication, organization, and critical thinking skills. They will create an App using App Inventor and produce a business plan to market.		
Teacher	Interim Assessment date	Summative assessment date
Miss Rana (AP computer science) Miss Joanne (non-AP)	AP: Programming Quiz Jan 17 Algorithms Quiz Jan 29 Non AP: Jan 22 Feb 10	AP: Project: Digital Artifact Feb 5 Non AP: March 7

Drama- <i>Performance of a Play</i> Unit description: This Drama unit will continue to master the basic theatre standards of acting, directing and writing- and combines these techniques with the common core standards of creating, performing and responding. The students will continue to understand the origins and background of the art of characterization, and learn, practice and apply the characterization that they learnt last unit to a full length play, within one ensemble of actors. 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.		
Teacher	Interim Assessment date	Summative assessment date
Miss. Kelly	30th January 2018	6th February 2018



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French		
Unit description: Des fêtes et des festivals Students will read and learn about French festivals around the world. They will complete a research project about a particular festival and present it to the class.		
Teacher	Interim Assessment date	Summative assessment date
Miss Veronica	January 25 (Oral) February 1 (Written)	February 8 (Reading and Listening)

Economics		
Unit description: Students in this unit will study some key economic indicators such as Economic growth, Employment, causes and consequences of unemployment and living standards. They will research different economies to demonstrate understanding and apply their knowledge to certain tasks.		
Teacher	Interim Assessment date	Summative assessment date
Miss Lisa	29th January 2018	8th February 2018

Biology; Physiology/Anatomy		
Unit description: The skeletal System In this unit, students will be able to: Identify and describe the functions of the skeletal system. Distinguish between the different types of bones and provide an example of each. Describe the microscopic structure of compact bone, and compare it with that of spongy bone. Explain the process by which bones are formed and how they grow in length and width. Identify the bones of the appendicular and axial skeleton. Diagnose specific types of bone fractures on X-ray images. Describe and diagnose disorders of the skeletal system. Assessment Method: Project, Quiz, Unit Test		
Teacher	Interim Assessment date	Summative assessment date
Miss Lindsay	Grade 11: January 24th Grade 12: January 23rd	Grade 11: February 7th Grade 12: February 6th

Art		
Unit description: The starting point of the "It starts with fashion" project is the exploration of technical skills of assemblage. Students will investigate and practice use of chosen techniques and research a chosen artist. After that students will create 2-3 ideas pieces for main sculpture and choose 1-2 artists as inspiration. 1 st pink assessment will be of prep work in a form of an A2 sheet (sketches, artist research and artwork, reference photos, notes) and mini sculptures. Students will use to their chosen artist and and inspiration for their final piece.		
Teacher	Interim Assessment date	Summative assessment date
Kasia	17.1.18	3.2.18



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Psychology I (The Biological and Sociocultural Approaches)

Unit Description:

Biological Approach- Students will identify the parts of the neuron and describe the basic process of neural transmission; differentiate between the structures and functions of the various parts of the central nervous system; describe lateralization of brain functions; discuss the mechanisms and the importance of plasticity of the nervous system; describe the effects of hormones/neurotransmitters on behavior and mental processes; and describe the interactive effects of heredity and environment.

Sociocultural Approach- Students will describe effects of others' presence on individuals' behavior, and discuss the nature and effects of stereotyping, prejudice, and discrimination.

Teacher	Interim Assessment date	Summative assessment date
Ashley Johnson	January 18, 2018 (Written/Multiple Choice)	This project will take 2 days to complete: January 30st and February 1st, 2018 (Research Project)

Psychology II (Motivation and Emotion)

Unit Description:

Motivation - Students will identify and apply basic motivational concepts to understand behavior with specific attention to instincts for animals, biological factors like drives and homeostasis, and operant conditioning factors like incentives, and intrinsic versus extrinsic motivators. Students will also compare and contrast the motivational theories of drive reduction theory, arousal theory, and Maslow's hierarchy of needs detailing the strengths and weaknesses of each.

Emotion - Students will compare and contrast the major theories of emotion James–Lange Theory, Cognitive Appraisal Theory, Schachter two-factor theory, Cannon–Bard Theory and Opponent Process Theory. Students will also describe how emotions are expressed and how cultural influences shape emotional expression.

Teacher	Interim Assessment dates	Summative assessment date
Arisa Robinson	January 18th, 2018 (Project: What Motivates You?) January 25th, 2018 (Project: Emotions Theory Poster)	February 1st, 2018 (Written: Concepts and Theories of Motivation and Emotion)

Advanced Biology

Unit description: Genetic Engineering

Students will explore the methods and uses of genetic Engineering and both positive and negative aspects of such methods as artificial selection, cloning, gene therapy and DNA fingerprinting. They will then explore the world of cloning entire organisms, isolated organs and plants as well.

Teacher	Interim Assessment date	Summative assessment date
Miss Lilla	Paper Lab on Recombinant and DNA Fingerprinting due Jan 24. Quiz on Methods of Genetic Engineering Feb 1.	An ongoing DNA technology portfolio project will be Due on Feb 7.

Advanced Physics

Unit description: U3 Thermodynamics. Student will cover a study of thermodynamics. Topics to include heat vs temperature, interpreting phase graph, specific heat, latent heat, ideal gas laws, bouancy, and pressure

Teacher	Interim Assessment date	Summative assessment date
Miss Cindy	Specific Heat activity 16/01	Design an Experiment and Lab Write Up: 23/01



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Latent Heat activity 25/01
