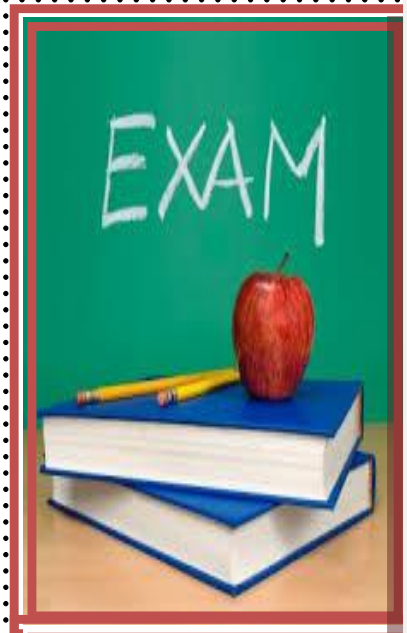

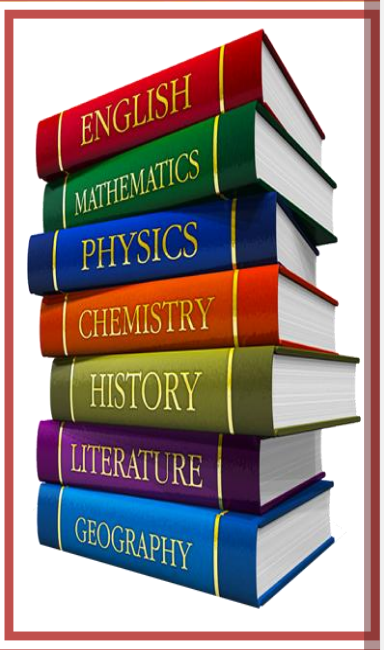

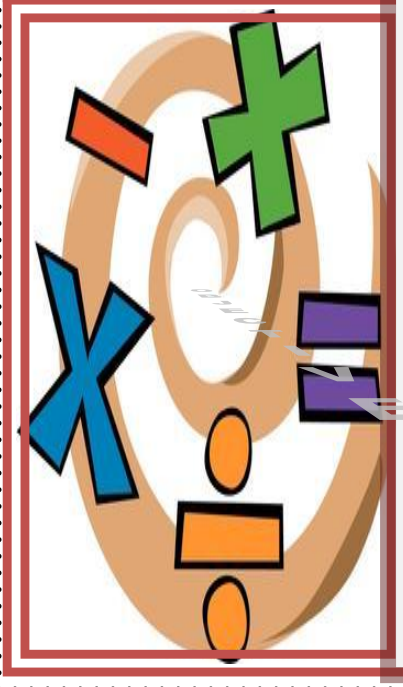

OBJECTIVES

أكاديمية الأرقم للبنات
AL- Arqam Academy For Girls

YEAR 12

Term 1 Exam

2018-2019

أكاديمية الأرقم للبنات
AL- Arqam Academy For Girls

OBJECTIVES

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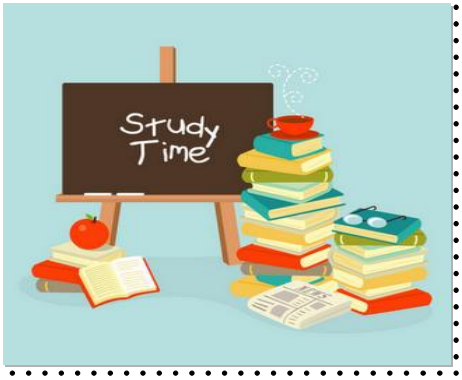

Teacher's name : JIHAN MOUSA Subject: Arabic Year group:12

No.	Term 1 objectives:
1	كتابة المقال السياسي والاجتماعي وفق شروطه وعدد كلماته المطلوب
2	طرح قضية ما للنقاش ومناقشة أسبابها وآثارها السلبية والإيجابية واقتراح حلول بناءة لها
3	ضبط الكلمة ضبطا سليما وفق موقعها الإعرابي من الجملة
4	ترجمة النص من العربية إلى الانجليزية ترجمة سليمة

Max. number of objectives is 5 objectives.

No of assessments during the term(without including the end of term exam) عدد الاختبارات خلال الفصل ما عدا نهاية الفصل	**3**
Total mark for each assessment (every assessment is out of what) درجات الاختبارات	**20-25-90**
Duration of end of term exam/exams الدرجة الخاصة باختبار نهاية الفصل	**90**

Topics and units covered/ Studying material/Any other information **المواضيع الداخلة باختبار نهاية الفصل**
. **كتابة المقال الاجتماعي والسياسي كتابة سليمة وفق شروطه وعدد كلماته المطلوب** **كتابة النص النقاشي (وعرض أسباب المشكلة – آثارها السلبية – اقتراح حلول لها)** **ضبط الكلمة ضبطا سليما وفق موقعها من الإعراب** **ترجمة النص من العربية إلى الانجليزية** **Please use your class practical experience and knowledge for the topics covered**

Teacher's name : walaa ibrahim **Subject: sharia** **Year group: 12**

No.	Term 1 objectives:
1	أن تطبق أحكام التجويد تطبيقاً صحيحاً فيما تتلو أو تسمع
2	أن توضح الأحاديث النبوية الشريفة المكونة لشخصية المسلم
	أن تفسر الآيات من سورة آل عمران تفسيرا صحيحا وتتعرف على بعض أبواب علوم القرآن المعينة على فهمه
3	أن تؤمن باليوم الآخر وما فيه من أحداث مثل الميزان والحوض والصراط والجنة والنار
4	أن تتعرف المقاصد الشرعية في بناء الأسرة والحفاظ على المجتمع من خلال معرفة أحكام النسب والرضاعة
5	أن تتعرف على شخصية أم المؤمنين عائشة رضي الله عنها

Max. number of objectives is 5 objectives.

No of assessments during the term(without including the end of term exam) عدد الاختبارات خلال الفصل ما عدا نهاية الفصل	**2**
Total mark for each assessment (every assessment is out of what) درجات الاختبارات	**15+15**
Duration of end of term exam/exams الدرجة الخاصة باختبار نهاية الفصل	**10تلاوة / 40 امتحان تحريري**

Topics and units covered/ Studying material/Any other information **المواضيع الداخلة باختبار نهاية الفصل**
Please use your class practical experience and knowledge for the topics covered. **1- أحكام النون الساكنة والتنوين** **2- سورة البقرة من آية 142-152 (تلاوة)** **3- سورة الذاريات (حفظ)** **4- رد شبهات اليهود** **5- اتقاء الشبهات** **6- الميزان** **7- الحوض والصراط** **8- أحكام النسب والرضاع** **9- أم المؤمنين عائشة رضي الله عنها** **10- علوم القرآن** **11- من طرق الخير** **12- الجنة والنار** **الأدلة الشرعية في الدروس التالية: احكام النسب والرضاع/ الحوض والصراط / الجنة والنار**

أكاديمية الأرقم للبنات
AL- Arqam Academy For Girls

Teacher's name: ميمونة محمد **Subject:** العلوم الاجتماعية **Year group:** الثاني عشر

No.	Term 1 objectives:
1	أن تذكر أسباب الحرب العالمية الأولى المباشرة وغير المباشرة.
2	أن توضح الظروف التي أدت إلى قيام الحرب العالمية الأولى.
3	أن تبين الاتفاقيات والمعاهدات خلال الحرب العالمية الأولى و أثرها على الوطن العربي.
4	أن تبين مفهوم الغلاف الجوي ومكوناته وطبقاته ومشكلة طبقة الأوزون.
5	أن تقارن بين المناخ والطقس .
6	أن تعدد عناصر الطقس والمناخ والعوامل المؤثرة في المناخ والاقاليم المناخية في العالم.

Max. Number of objectives : ……

No of assessments during the term (excluding the end of term exam)	**Assessment 1** **Assessment 2**
Total mark for each assessment (every assessment is out of what)	**Total (30)** **Assessment 1 (15)** **Assessment 2 (15)**
No of assessments needs to be included in end of term 1 exam timetable	**50**
Duration of end of term exam/exams	**…….. minutes**

Topics and units covered/ Studying material/Any other information
1-الحرب العالمية الاولى الصفحة 11-34 (الأوضاع السياسية في اوروبا قبل قيام الحرب العالمية الأولى ، أسباب الحرب العالمية الاولى، القوى المتحاربة، مواقف الدول من الحرب، مراحل الحرب العالمية الأولى ، نتائج الحرب العالمية الأولى وضع الدولة العثمانية بعد الحرب العالمية الأولى، الاتفاقيات والمعاهدات خلال الحرب العالمية الاولى وأثرها على الوطن العربي) **2-الغلاف الجوي الصفحة 36-39(المفهوم ، أهميته، المكونات، طبقاته ، مشكلاته)** **3-المناخ والطقس40-68 (عناصر المناخ ، العوامل المؤثرة في المناخ و الاقاليم المناخية في العالم)**

Teacher: Ms Sharon **Subject: ENGLISH** **Year group: 12**

No.	Term 1 objectives:
1	READING • Demonstrate understanding of explicit meanings • Demonstrate understanding of implicit meanings and attitudes • Select information for specific purposes.
2	WRITING • Articulate experience and express what is thought, felt and imagined • Use a range of appropriate vocabulary • Make accurate use of spelling, punctuation and grammar
3	SPEAKING • Do a job interview role play. • Demonstrate the ability to speak fluently and confidently without notes

No of assessments during the term (without including the end of term exam)	**2**
Total mark for each assessment (every assessment is out of what?)	**30 – Comprehension and summary** **25 – Speaking**
No of assessments needs to be included in end of term 2 exam timetable	**1**
Duration of end of term exam/exams	**1.5 hours**

Topics and units covered/ Studying material/Any other information
Topics covered: * A number of vocabulary exercises to enhance vocabulary * CV writing and Personal Statement * Interview skills **Exam Preparation:** * Practise readings from IELTS, SAT or TOFL. * Read through vocabulary lists and familiarize yourself with as many words as possible.

Teacher's name : Ruchi Shangari Subject: Physics Year group: Grade 12

No.	Term 1 objectives:
1	**Mechanics-- Motion** Describing motion, Kinematics Equations-Equations of motion Vectors/scalars, Motion Graphs, Newton's laws of motion, Moments, Resolving Vectors-Moving in more than one directions, Measuring g, Projectiles
2	**Energy**—Gravitational and Kinetic Energies, Work and Power, Efficiency
3	**Momentum**—Momentum , Conservation of Linear Momentum.
4-	**Materials—Fluids** Fluids flow, Density, Upthrust, Stokes law,Viscosity, Terminal Velocity
5-	**Solid Material Properties**—Hooke's Law, Stress, strain young modulus, Stress-Strain Graphs, Materials in the real world

No of assessments during the term(without including the end of term exam)	**3**
Total mark for each assessment (every assessment is out of what)	**Assesment 1: Out of 42** **Assesment2: Out of 41**
No of assessments needs to be included in end of term 1 exam timetable	**1**
Duration of end of term exam/exams	**Unit-1 2hours 100 marks**

Topics and units covered/ Studying material/Any other information

Mechanics-- Motion To Describe motion, To understand the use of Equations of motion in solving problems. To study the concept of Vectors/scalars - Moving in more than one directions, Solving problems , Causes of motion, To understand Newton's laws and apply it to solve problems, Solving questions on Moments

To solve questions of practical type –Study the effect of varying parameters and measuring - Measuring g

To study Projectiles- Projectile Motion , To solve problems using the concept

Energy—To define Energy, types of Energy , transformation of energy . To use Energy to calculate Power, Solve problems of Energy, and power. To calculate Efficiency for different energy transformations.

Momentum—To solve questions on Momentum and conservation of momentum

Materials—Fluids To Explain types of Fluids flow, To apply Stokes law to solve problems.To solve problems on Viscosity and upthrust

To solve questions of practical type on the above concept

Solid Material Properties To study the strength of different types of materials, To define different properties of materials -Stress, strain young modulus, Solve problems on Stress, Strain and Young's Modulus. To study different examples of solid Materials in the real world with respect to different properties.

Resources- Textbook and reference notes given in the class.

Teacher's name : Uzma Jalil **Subject: Chemistry** **Year group: 12A/B**

No.	Term 1 objectives:
1	**Formulae, equations and amount of substances**
2	**Atomic structure and the periodic table**
3	**Bonding and structure**
4	**Organic Chemistry**

No of assessments during the term(without including the end of term exam)	**2**
Total mark for each assessment (every assessment is out of what)	**55; 52**
No of assessments needs to be included in end of term 1 exam timetable	**1**
Duration of end of term exam/exams	**2 hrs; 100 Marks(UNIT 1 +3)**

Topics and units covered/ Studying material/Any other information

Topic 1: Calculations

- Formula , equations & amount of substances
- Stoichiometry

Topic 2: Atomic structure

- Mass spectrometry, Isotopes
- S,p,d,f orbitals
- Ionization energy, electron affinity

Topic 3: Bonding

- Ionic bonding, ionic radii, evidence of existence ions (CuCrO4),lattice structure
- Electronegativity
- Polarization
- % ionic character
- Dipole moment (effect of electrostatic on jets of liquid),polar bonds and polar molecules
- Covalent bonding, dative covalent bonding, electron density map,
- giant covalent structure- graphite, diamond ,graphene
- Shapes of molecules VSEPRT, bond length and bond angle
- Metallic bonding (melting point trends, electrical conductivity)

Topic 4: Organic Chemistry

- Hazards and risks
- IUPAC nomenclature: structural, displayed & skeletal formula
- Types of reactions
- Alkanes:isomers, reactions of alkanes
- Alkenes: isomerism, reactions of alkenes
- Polymers

UNIT 3 : Measurements and errors, graphs, calculations and practicals relevant to unit 1

Solve past papers from link:

https://qualifications.pearson.com/en/qualifications/edexcel-international-advanced-levels/chemistry.coursematerials.html#filterQuery=category:Pearson-UK:Category%2FExam-materials

EDEXCEL specification (UNIT 1):
https://qualifications.pearson.com/content/dam/pdf/International%20Advanced%20Level/Chemistry/2018/Specification-and-Sample-Assessment/International-A-Level-Chemistry-Spec.pdf

Please use your class practical experience and knowledge for the topics covered.

For through preparation of the course material please read & understand each lesson from your text book, solve end of chapter exercises, solve past papers and use lab activities, work sheets & class notes as extra resources

Teacher's name : Fauzia Usman **Subject: Biology** **Year group: 12**

No.	Term 1 objectives:
1	**Biological molecules –Water, carbohydrates and lipids**
2	**Transport around the body, water, blood; circulatory system; blood clotting, transport of oxygen and carbon dioxide**
3	**Cardiovascular diseases, risk factors, control, treatment. Evaluating studies and interpreting data.**
3	**Cell membranes, and transport across membranes**
4	**Gas exchange surfaces and adaptations of mammalian lungs**
5	**Core practicals 1, 2 and 3**

Max. number of objectives is 5 objectives.

No of assessments during the term(without including the end of term exam)	**2**
Total mark for each assessment (every assessment is out of what)	**45; 45**
No of assessments needs to be included in end of term 1 exam timetable	**1**
Duration of end of term exam/exams	**Unit 1 + Unit 3 Total 2 hours** **Total 100 marks(80+20)**

Topics and units covered/ Studying material/Any other information
Topic 1: structure of water, dipole nature of water, relationship of its structure to the function of water; role of water in transport, circulatory system; components of blood; blood vessels; heart and double circulation; mechanism of blood clotting, role of blood in transporting oxygen and carbon dioxide (Oxygen dissociation curve, Bohr shift). Cardiovascular diseases; atheroma and atherosclerosis; risk factors, reducing risk factors, perceived and actual risk, Obesity indicators, treatments and their benefits and risks, correlation between CVD and risk factors, evidence of causation, conflicting evidence and evaluating studies on disease; Structure and function of carbohydrates and lipids; condensation and hydrolysis reactions. **Topic 2:** structure of the cell membrane and transport across membranes, diffusion, facilitated diffusion, osmosis, active transport, endocytosis and exocytosis; properties of gas exchange surfaces, structure of mammalian lungs, function of membranes in respiratory system and Fick's law **Unit 3 Practicals** – Core practical 1. Using a semi-quantitative method with Benedicts reagent to estimate concentration of reducing sugars and using iodine solution to estimate concentration of starch, using colour standards. Core practical 2. Investigating the vitamin C content of fruit juices and food. Core practical 3. Investigating the effect of temperature and alcohol on membrane permeability. **Please use your class practical experience and knowledge for the topics covered.**

Teacher's name: Ms Mallika **Subject: Mathematics** **Year: 12**

No.	Term 1 objectives:
1	Algebraic expressions, Quadratics, equations and inequalities - P1 Algebraic methods – P2
2	Graphs and transformations – P1
3	Straight line graphs – P1 Coordinate geometry in the (x, y) plane
4	Exponentials and logarithms – P2

No of assessments during the term (excluding the end of term exam)	**2**
Total mark for each assessment (every assessment is out of what)	**40**
No of assessments needs to be included in end of term 1 exam timetable	**1**
Duration of end of term exam/exams	**2 hours 30 minutes**

Topics and units covered/ Studying material/Any other information

Algebraic expressions (P1)

- Index laws
- Expanding brackets
- Factorising
- Negative and fractional indices
- Surds
- Rationalising denominators

Quadratics P(1)

- Solving quadratic equations
- Completing the square
- Functions
- Quadratic graphs
- The discriminant

Equations and inequalities P(1)

- Linear simultaneous equations
- Quadratic simultaneous equations
- Simultaneous equations on graphs

- Linear inequalities
- Quadratic inequalities
- Inequalities on graphs
- Regions

Graphs and transformations P(1)

- Cubic graphs
- Reciprocal graphs
- Points of intersection
- Translating graphs
- Stretching graphs
- Transforming functions

Straight line graphs P(1)

- Y = mx+c
- Equations of straight lines
- Parallel and perpendicular lines
- Length and area

Algebraic Methods (P2)

- Algebraic fractions
- Dividing polynomials
- The factor theorem
- The remainder theorem
- Mathematical proof
- Methods of proof

Coordinate geometry in the (x,y) plane

- Midpoints and perpendicular bisectors
- Equation of a circle
- Intersections of straight lines and circles
- Use of tangent and chord properties
- Circles and triangles

Exponentials and Logarithms (P2)

- Exponential functions
- Logarithms
- Laws of logarithms
- Solving equations using logarithms
- Changing the base of a logarithm

Studying material: Text book, Review exercises in the textbook, C1, C2 and C12 past papers

Teacher's name: Ms Ameera **Subject: IT** **Year group: 12**

No.	Term 1 Topics
1	**Spreadsheets** • Create a spreadsheet • Graphs and charts • Modelling • Simulations
2	**Database and file concepts** • assign a data type and an appropriate field size to a field (including: text, alphanumeric, numeric (integer, decimal), date/time, Boolean) • describe the three relationships: one-to-one, one-to-many and many-to-many • create and use relationships (including: one-to-one and one-to-many) • create and interpret an entity relationship diagram • evaluate the difference between a flat file and a relational database and why one might be preferred in certain situations • create a relational database • analyse the function of key fields (including: primary key, compound key, foreign key) • set keys (including: primary key, compound key, foreign key) • define and use referential integrity and explain its importance perform searches — simple query on single criterion — complex queries using multiple criteria — queries using static parameters — queries using dynamic parameters — nested queries — summarise data (including: cross-tab query/pivot table) — using text, numeric, date, time, wildcard, Boolean operators (AND, OR, NOT) • use arithmetic operations, numeric and logical functions to perform calculations within a database (including calculated controls and calculated fields) • sort data — ascending, descending, grouped • design, create and evaluate an appropriate data entry form (including: appropriate font styles and sizes, spacing between fields, character spacing of individual fields, use of white space, radio

	buttons, drop down menus, highlighting key fields, use form controls, create linked subforms) • design, create and evaluate database reports including grouped reports • design, create and evaluate a switchboard/menu within a database • import data (including: .csv, .txt, .rtf) • export data (including: table, query, report, export as .csv, .txt, .rtf)

No of assessments during the term (without including the end of term exam)	**2**
Total mark for each assessment (every assessment is out of what?)	Assessment 1- 15% Assessment 2-15%
No of assessments needs to be included in end of term 1 exam timetable	1
Duration of end of term exam/exams	2 hours 30 minutes

Topics and units covered/ Studying material/Any other note the teacher would like to remind students of(eg. Needed tools on the test…etc)
Students need to revise above mentioned topics from given notes, books and AS past papers. Students can also take help from all the resources uploaded at www.edmodo.com.

Teacher's name: Miss Anisah **Subject: AS Business** **Year group: 12**

No.	Term 1 objectives:
1	Students will be able to define key terms and explain them in the context of the relevant business topic.
2	Students will be able to identify and analyse the marketing and people functions, including entrepreneurs and business start up.
3	Students will be able to discuss the strategies businesses use to develop a competitive advantage through interacting with customers and explain how businesses need to adapt their marketing to operate in a dynamic business environment.

Max. Number of objectives : ……

No of assessments during the term (excluding the end of term exam)	**Assessment 1** **Assessment 2**
Total mark for each assessment (every assessment is out of what)	**Assessment 1 (20)** **Assessment 2 (26)**
No of assessments needs to be included in end of term 1 exam timetable	**1**
Duration of end of term exam/exams	**1hr 30 mins**

Topics and units covered/ Studying material/Any other information
All of unit 1: Meeting customer needs **Meeting customer needs:** • The Market • Market Research • Market Positioning **The Market** • Demand • Supply • Markets and equilibrium • Price elasticity of demand • Income elasticity of demand **Marketing mix and strategy** • Product/service design • Branding and promotion • Pricing strategies • Distribution • Product life cycle and portfolio • Marketing strategy **Managing people** • Approaches to staffing • Recruitment, selection and training

- Organizational design
- Motivation in theory and practice
- Leadership

Entrepreneurs and leaders

- Role of an entrepreneur
- Entrepreneurial motives and characteristics
- Business objectives
- Forms of business
- Business choices
- Moving from entrepreneur to leader

PLEASE USE OWN NOTES, RESOURCES AND TEXTBOOK!