

Date: 12 Safar,1443

Date: 19-Sep-2021

Year 12 Mid-Term1 Exams Objectives 2021-2022

أهداف وتفصيلات اختبار منتصف الفصل الدراسي الأول 2021-2022

المرحلة الدراسية: الصف الثاني عشر .		المادة: اللغة العربية.		المعلمتان: أ. ریحانة عبدالقوي، أ. أمل شلبي.	
الأهداف:					
1	أن تجيب عن أسئلة فهم المقروء إجابة تامة صحيحة بأسلوبها الخاص.				
2	أن تكتب نصًا نقاشيًا متكامل السمات البنائية والأسلوبية في حدود 250-400 كلمة.				
3	أن توظف ما تعلمت من نحو وإملاء توظيفًا صحيحًا في أثناء الكتابة.				
4	أن تستخدم علامات الترقيم وأدوات الربط والأساليب البلاغية استخدامًا مناسبًا في أثناء الكتابة.				
رقم الصفحات	المادة المقررة / معلومات هامة تتعلق بالاختبار/ المجال				
	<p>- كتابة نصّ نقاشيّ متكامل العناصر البنائية والأسلوبية بحدود 250-400 كلمة.</p> <p>- الإجابة عن أسئلة فهم المقروء إجابة كاملة صحيحة وبأسلوب الطالبة الخاص.</p> <p>- القواعد:1- حذف وزيادة الحروف. 2- المثني.</p> <p>**المهارات اللازم تواجدها في المواضيع:</p> <p>- علامات الترقيم.</p> <p>- أدوات الربط.</p> <p>- الجماليات الفنية (الأساليب البلاغية): استعارة، تشبيه...</p> <p>بما يدعم كتابتها.</p>				
	<p>- التدرّب من الملزمة على مهارة فهم المقروء من الورقة الامتحانية الأولى.</p> <p>- العروض التقديمية المرسله للطالبات على التيمز.</p>				

1	عدد الاختبارات خلال الفصل ما عدا نهاية الفصل
30	درجات الاختبارات
	الدرجة الخاصة باختبار نهاية الفصل

الصف: الثاني عشر	المادة: التاريخ الإسلامي	اسم المعلمة: منى الفار
الأهداف		
1	توضّح الطالبة أثر الحضارة الإسلامية على العرب على الصّعيد الديني والفكري والتّفسّي.	
2	توضّح الطالبة أثر الحضارة الإسلامية على العرب على الصّعيد الخلقّي والاجتماعي والاقتصادي.	
3	توضّح الطالبة أثر الحضارة الإسلامية على العرب على الصّعيد الديني الثّقافي والأدبي والسياسي.	

أهداف وتفصيلات اختبار منتصف الفصل الدراسي الأول 2021 - 2022

رقم الصفحات	المادة المقررة / معلومات هامة تتعلق بالاختبار/ المجال
اسم الوحدة: الحضارة الإسلامية	
	- اسم الدرس:
	1 - فضل الإسلام على العرب.
	2 - أثر الإسلام على الصعيد الديني.
	3 - أثر الإسلام على الصعيد الفكري والنفسي.
	4 - أثر الإسلام على الصعيد الخلقّي.
	5 - أثر الإسلام على الصعيد الاجتماعي.
	6 - أثر الإسلام على الصعيد الاقتصادي.
	7 - أثر الإسلام على الصعيد الثقافي والأدبي.
	8 - أثر الإسلام على الصعيد السياسي.
	ورقة إثرائية (1)
	ورقة إثرائية (2)
	ورقة إثرائية (3)
	ورقة إثرائية (4)
	ورقة إثرائية (5)
	ورقة إثرائية (6)
	ورقة إثرائية (7)
	ورقة إثرائية (8)
	يتمّ دراسة المادة من خلال العروض التّقديميّة والمادة الإثرائيّة المحمّلة في تيمز

1	عدد الاختبارات خلال الفصل ما عدا نهاية الفصل
30	درجات الاختبارات
40	الدّرجة الخاصّة باختبار نهاية الفصل

الصف: الثاني عشر	المادة: تربية إسلامية	اسم المعلمة: ميمونة محمد-دانية القريوتي
الأهداف		
1	أن تفسر الطالبة الآيات الكريمة (102-110) من سورة آل عمران تفسيرًا وافيًا.	
2	أن تبين الطالبة مراحل التحدي بالقرآن الكريم ووجوه إعجازه.	
3	أن توضح الطالبة أقسام الأحكام الواردة في الحديث وتذكر أمثلة على الأمور المشتميات.	

أهداف وتفصيلات اختبار منتصف الفصل الدراسي الأول 2021 - 2022

رقم الصفحات	المادة المقررة / معلومات هامة تتعلق بالاختبار/ المجال
صفحة: 26-36 صفحة: 37-46	- <u>مجال القرآن الكريم:</u> 1 - تقوى الله والاعتصام بدينه عزوجل 2 - إعجاز القرآن الكريم
صفحة: 48-57	- <u>مجال الحديث الشريف:</u> اتقاء الشبهات

1	عدد الاختبارات خلال الفصل ما عدا نهاية الفصل
30	درجات الاختبارات
40	الدرجة الخاصة باختبار نهاية الفصل

Mid-Term 1 Subject Details: ENGLISH

Teacher's Name: Waheeda & Sameera Subject: English Year group: 12	
Term 1 Midterm Assessment objectives:	
1.	Writing: To write a formal email using appropriate register and syntax. Apply the correct conventions for a formal email.
2.	Reading: To read, understand and respond to information in a text. Understand and respond to information presented in a variety of forms Select and organize material relevant to specific purposes.
3.	Vocab. Ext.: To be able to understand and apply a wide range of vocabulary

Topics and units covered/ Studying material/Any other information	
<ul style="list-style-type: none"> • Read and discuss articles to encourage critical thinking • Revise/teach conventions of a formal email. • Encourage communication skills through active discussions on a wide range of topics <p>Exam Preparation: Go through PPTs for structure and format of email.</p>	

No. of assessments during the term (excluding the end of term exam)	2 Writing and Speaking
Total mark of each assessment	Writing: 45 Speaking: 25
Duration of midterm assessment	1 hour

Term 1 Midterm Exam Objectives

Teacher's name: Fauzia Usman	
Subject: Biology	
Year group: 12	
Term 1 Midterm Exam objectives:	
1.	<p>Specification section 1.1 -Chemistry of water Explain how the dipole nature of water gives it properties that are important for transport of other molecules in living things.</p>
2.	<p>Specification sections 1.2 and 1.4 - Carbohydrates Be able to describe, draw and recognize different carbohydrates. Describe the structure and function of monosaccharides, disaccharides and polysaccharides. Describe and be able to draw how monosaccharides join to form di and poly saccharides (condensation reaction) and also how they can break up (hydrolysis). Compare the structures of monosaccharides and disaccharides and also polysaccharides (especially starch and glycogen)</p>
3	<p>Specification section 1.5- Lipids Draw and recognize the structure of glycerol and fatty acids and describe how they join together to form a triglyceride (condensation reaction) and also how this can break up into its components (hydrolysis). List the differences between saturated and unsaturated fatty acids and describe their properties.</p>
4	<p>Specification section 2.6 – Proteins Be able to recognize and draw the basic structure of an amino acid and these can join together in a condensation reaction to form di and polypeptides, and also how these can them break up again by hydrolysis reactions. Explain how the primary structure is important in determining the secondary and tertiary structure of proteins and therefore their properties with reference to the types of bonds involved. Describe the properties of globular and fibrous proteins and be able to list the differences between them. Describe the structure and properties of haemoglobin and collagen and relate these to their functions. List the differences and similarities between the two.</p>
5	<p>Specification section 1.6- Mass transport Explain why animals have a heart and circulation and list the advantages of a double and closed circulation. Compare single and open circulation to double and closed circulation</p>
6	<p>Specification section 1.7 – Blood vessels Describe the structure of blood vessels and relate these to their functions.</p>
7	<p>Specification section 1.8 – The heart and cardiac cycle Describe the structure of the heart and relate it to its function, including the major blood vessels associated with it. Describe the stages of the cardiac cycle and be able to recognize pressure and volume changes in different stages.</p>
8	<p>Specification section 1.9- transport of oxygen and carbon dioxide Explain how oxygen and carbon dioxide are transported in blood. Be able to explain the oxygen dissociation curve and the Bohr shift. Recognise and explain oxygen dissociation curve for different types of haemoglobin.</p>

Topics and units covered/ Studying material/Any other information

The following sections of the AS Biology syllabus XBI11 will be covered in the exam.

Unit 1- Topic 1 and Topic 2

Sections 1.1 to 1.9 and 2.6

You should know the methods and practical skills for the following core and recommended practicals;

CORE PRACTICAL -

Specification section 1.3-Core practical 1

Using a semi-quantitative method with Benedict's reagent to estimate concentrations of reducing sugars and with iodine solution to estimate the concentrations of starch, using colour standards

RECOMMENDED ADDITIONAL PRACTICAL- You must understand the technique and theory of these as well;

1. Investigate the structure of a mammalian heart by dissection
2. Use a semi-quantitative method to estimate protein concentration using biuret reagent and colour standards.

Exam preparation:

Print off and use the specification as a checklist

<https://qualifications.pearson.com/content/dam/pdf/International%20Advanced%20Level/Biology/2018/Specification-and-Sample-Assessment/International-A-Level-Biology-Spec.pdf>

Use the textbook and PowerPoints to go through each topic and make your own notes and flash cards. Answer the chapter questions and end of chapter questions for each chapter to check understanding.

Practice past papers 1 and 3 from;

<https://qualifications.pearson.com/en/qualifications/edexcel-international-advanced-levels/biology.coursematerials.html#filterQuery=Pearson-UK:Category%2FExam-materials>
https://www.shawonnotes.com/index.php/edexcel-ial-past-papers/edexcel-as-ial-biology-past-papers/#google_vignette
<https://www.savemyexams.co.uk/international-a-level-biology-edexcel-new/past-papers/>

Mark the papers using the mark scheme and only allow the required time to solve the papers. Draw diagrams and label them, practice questions with graphs (describing, explaining and drawing), and practice lots of questions with calculations.

Materials for exam:

Do not forget to bring your equipment such as pens, pencils, **ruler**, rubber, sharpener, and **calculator**. Note that equipment will not be supplied by school or shared with others due to safety precautions.

Examination tips:

1. Read every question carefully. If you do not understand it, read it again.
2. If you do not know the answer to a question, move on to the next question and come back to it at the end if you have got time.
3. Check your answers thoroughly and ensure you have provided enough detail.
4. Do not leave any question unanswered.
5. Always use a pencil and a ruler to draw diagrams, graphs, or tables.

6. Draw and label the diagrams and graphs clearly.
7. Check your units in any calculations and show working out if you have been given the space.

No. of assessments during the term (excluding the end of term exam)	1
Total mark for midterm assessment (every assessment is out of what)	60
Duration of midterm 1 exam	1 hour and 10 minutes

Term1 Mid-Term Exam Subject Details

Teacher's names: Ms Uzma	
Subject: Year 12 AS Chemistry	
Term 1 Mid-Term Assessment Objectives:	
1.	Amount of substance
2.	Atomic Structure and the Periodic Table
3.	Bonding and Structure

Topics and units covered/ Studying material/Any other information

Topic 1: Amount of substance

- Be able to use chemical equations to calculate reacting masses and vice versa using the concept of amount of substance and molar mass; be able to calculate volumes of gases and vice versa using:
 - the concepts of amount of substance
 - molar volume of gases
 - the expression $pV = nRT$ for gases and volatile liquids. Be able to determine a formula or confirm an equation by experiment, including evaluation of the data.
- Be able to calculate the concentration of a solution in mol dm^{-3} and g dm^{-3} .
- Be able to calculate percentage yields and percentage atom economies (by mass) in laboratory and industrial processes using chemical equations and experimental results.
- Titration, making standard solution, calculations involving solutions taken and percentage uncertainty.

Topic 2: Atomic Structure and the Periodic Table

- Mass spectrometry (instrumental technique), interpretation of mass spectra, Isotopes
- s,p,d,f orbitals; shapes of s,p orbitals and filling of electrons in subshells of elements and ions.
- Know that an orbital is a region within an atom that can hold up to two electrons with opposite spins.
- Be able to represent data, in a graphical form (including the use of logarithms of first ionisation energy on a graph) for elements 1 to 36
- Ionisation Energy.
- Know that ideas about electronic configuration developed from:
 - an understanding that successive ionisation energies provide evidence for the existence of quantum shells and the group to which the element belongs
 - an understanding that the first ionisation energy of successive elements provides evidence for electron sub-shells
- Be able to explain:
 - the trends in melting and boiling temperatures of the elements of Periods 2 and 3 of the Periodic Table in terms of the structures of the element and the bonding between its atoms or molecules
 - the general increase and the specific trends in ionisation energy of the elements across Periods 2 and 3 of the Periodic Table
 - the decrease in first ionisation energy down a group.

Topic 3: Bonding and Structure

- Ionic bonding, ionic radii, evidence of existence of ions (CuCrO_4), 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 VSEPR, bond length and bond angle.

- Be able to distinguish between polar bonds and polar molecules and predict whether or not a given molecule is likely to be polar.
- Understand the principles of the electron-pair repulsion theory, used to interpret and predict the shapes of simple molecules and ions.
- Understand the terms 'bond length' and 'bond angle'.
- Know and be able to explain the shapes of, and bond angles in, BeCl_2 , BCl_3 , CH_4 , NH_3 , NH_4^+ , H_2O , CO_2 , gaseous PCl_5 , SF_6 and C_2H_4 . Be able to apply the electron-pair repulsion theory to predict the shapes of, and bond angles in other molecules and ions.
- Metallic bonding (melting point trends, electrical conductivity).

Exam Preparation:

Please visit the website for more details:

<https://qualifications.pearson.com/content/dam/pdf/International%20Advanced%20Level/Chemistry/2018/Specification-and-Sample-Assessment/International-A-Level-Chemistry-Spec.pdf>

UNIT 3:

This unit will assess students' knowledge and understanding of experimental procedures and techniques in Unit 1.

Useful website for notes and videos on these experiments

<https://www.physicsandmathstutor.com/chemistry-revision/a-level-edexcel-ial/unit-3/>

Interactive screen experiments:

<https://edu.rsc.org/resources/collections/screen-experiments>

There are 3 Core Practicals for this midterm exam:

CP 1 Measurement of the molar volume of a gas

CP 3 Finding the concentration of a solution of hydrochloric acid

CP 4 Preparation of a standard solution from a solid acid and use it to find the concentration of a solution of sodium hydroxide

Sample assessment materials are given:

<https://qualifications.pearson.com/content/dam/pdf/International%20Advanced%20Level/Chemistry/2018/Specification-and-Sample-Assessment/International-A-Level-Chemistry-SAMs.pdf>

Study Tips:

Print off and use this objective and EDEXCEL specification as a checklist

Use the textbook and PowerPoints on TEAMS to go through each topic and answer the chapter questions and end of chapter questions for each chapter.

Practice past papers 1 and 3 <https://www.physicsandmathstutor.com/>

Mark the papers using the mark scheme and only allow the required time to solve the papers.

you must learn how to draw the graphs and understand how to plan scientific investigations.

Materials for exam:

Do not forget to bring your equipment such as pens, pencils, **ruler**, rubber, sharpener, and **calculator**.

Note that equipment will not be supplied by school or shared with others due to safety precautions.

EXAMINATION TIPS –

8. Read every question carefully. If you do not understand it, read it again.

9. If you don't know the answer to a question, move on to the next question and come back to it at the end if you've got time.
10. Check your answers thoroughly.
11. Do not leave any question blank.
12. Always use a pencil and a ruler to draw diagrams, graphs or tables.
13. Label the diagrams and graphs clearly.

No. of assessments during the Midterm	1
Total mark for each assessment (every assessment is out of what)	60 marks
No. of assessments need to be included in mid-term assessment timetable	1
Duration of the mid-term assessment	1 hour 10 min

Mid-Term 1 Subject Details 2021-22

Teacher's Name: Ms. Ruchi

Subject: Year 12 Physics

Mid-Term 1 Assessment Objectives:

1

Topic-1 MECHANICS (1A MOTION)

- Explain the distinction between scalar and vector quantities and know examples of each type of quantity.
- Distinguish between speed and velocity and define acceleration
- Calculate values using equations for velocity and acceleration
- Interpret displacement time graphs, velocity time graphs and acceleration time graphs.
- Know the physical quantities derived from the slopes and areas of displacement-time, velocity-time and acceleration time graphs, including cases of non-uniform acceleration and understand how to use the quantities.
- Make calculations from these graphs.
- Understand the graphical representation of accelerated motion.
- Add two or more vectors by drawing.
- Add two perpendicular vectors by calculation.
- Explain that any vector can be split into two components at right angles to each other and calculate their values.
- Be able to draw and interpret free-body force diagrams to represent forces on a particle or an extended but rigid body using the concept of centre of gravity of an extended body.
- Be able to use the equation $F=ma$, and understand how to use this equation in situations where m is constant (Newton's second law of motion), including Newton's First law of motion where $a=0$, objects at rest or travelling at constant velocity.
- Use of the term Terminal velocity is expected.
- Recall Newton's laws of motion and use them to explain the acceleration of objects.
- Make calculations using Newton's laws of motion.
- To know and understand Newton's third law of motion and know the properties of pairs of forces in an interaction between two bodies.
- Identify pairs of forces involved in Newton's third law of motion.
- Be able to use the equations for gravitational field strength and weight.
- Calculate the Moment of a Force.
- Be able to use the equation for the moment of force, moment of force $=Fx$ where x is the perpendicular distance between the line of action of the force and the axis of rotation.
- Apply the principle of Moments.
- Find the Centre of gravity of an object.
- Recall the simple Kinematics equations.
- Calculate unknown variables using the kinematics equations.
- Apply kinematics equations to moving objects.
- Be able to use the equations of motion for uniformly accelerated motion in one dimension.

2	<p>Topic-1 MECHANICS (1B Energy)</p> <ul style="list-style-type: none"> ▫ Be able to use the equation for work $W=Fs$ including calculations when the force is not along the line of motion. ▫ Be able to use the equation $E_k=1/2 mv^2$ for the kinetic energy of a body. ▫ Be able to use the equation $E_{grav}= mgh$ for the difference in gravitational potential energy near the earth's surface. ▫ Know and understand how to apply, the principle of conservation of energy including use of work done, gravitational potential energy and kinetic energy. ▫ Be able to use the equations relating power, time and energy transferred or work done $P=E/t$ and $P=W/t$ ▫ Be able to use the equations ▫ Efficiency= useful energy output/total energy input and ▫ Efficiency = useful power output/total power input
3	<p>Topic-1 MECHANICS (1C Momentum)</p> <ul style="list-style-type: none"> ▫ Understand that momentum is defined as $p=mv$ ▫ Know the principle of conservation of linear momentum, understand how to relate this to Newton's laws of motion and understand how to apply this to problems in one dimension.

Topic	Textbook Pages	Specification Objective Numbers
Standard Units in Physics	2-4	
1A Motion	8-32	From 1 to 6 and 8 to 12, 15,16
1B Energy	34-44	From 17 to 22
1C Momentum	46-56	13,14

studying material/Any other information

The entire International AS Physics syllabus XPH11 for UNIT-1 Topic MECHANICS will be covered in the Mid-Term Assessment except objective 7 from the specifications which is Projectiles.

Please visit the website for more details:

[Edexcel International Advanced Level Physics \(2018\) | Pearson qualifications](#)

UNIT 3:

This unit will assess students' knowledge and understanding of experimental procedures and techniques in Unit 1.

NOTE: ONLY UNIT3 QUESTIONS Based on measurements and topics done in UNIT-1 will be asked in Midterm Assesment1

Unit 3: Practical Skills in Physics I

CORE PRACTICALS:

- 1: Determine the acceleration of a freely-falling object.
- 2: Determine the Young modulus of a material.

Resources- Textbook and reference notes given in the class. Sample assessment materials are given:

[International-AL-Physics-Specification.pdf \(pearson.com\)](https://www.pearson.com/International-AL-Physics-Specification.pdf)

Study Tips:

Use the textbook and PowerPoints on TEAMS to go through each topic and answer the chapter questions and end of chapter questions for each chapter.

Practice past papers 1,2 and 3 <https://www.physicsandmathstutor.com/>

Mark the papers using the mark scheme and only allow the required time to solve the papers. Draw the diagrams and learn how to label them and you must learn how to draw the graphs and understand how to plan scientific investigations.

Materials for exam:

Do not forget to bring your equipment such as pens, pencils, **ruler**, rubber, sharpener, and **calculator**. Note that equipment will not be supplied by school or shared with others due to safety precautions.

EXAMINATION TIPS –

14. Read every question carefully. If you do not understand it, read it again.
15. If you don't know the answer to a question, move on to the next question and come back to it at the end if you've got time.
16. Check your answers thoroughly.
17. Do not leave any question blank.
18. Always use a pencil and a ruler to draw diagrams, graphs or tables.
19. Label the diagrams and graphs clearly.

No. of mid-term assessments during the term (excluding the end of term exam)	1
Total mark for the mid-term 1 assessment (The assessment is out of what)	60 marks
No. of assessments that need to be include in the mid-term 1 assessment timetable	1 assessment
Duration of the mid-term 1 assessment	1 hour 10 minutes

Mid Term 1 Subject Details

Teacher's name: Miss Anisah Subject: AS Business Year group: 12	
Mid Term 1 Exam 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 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.

Topics and units covered/ Studying material/Any other information
<p>Unit 1: Meeting customer needs</p> <p>Meeting customer needs:</p> <ul style="list-style-type: none"> • Introduction to the market • The Market • Market Research • Market Positioning <p>The Market</p> <ul style="list-style-type: none"> • Demand • Supply • Markets and equilibrium <p>PLEASE USE OWN NOTES, RESOURCES AND TEXTBOOK!</p>

No. of assessments during the term (excluding the end of term exam)	1 mid term
Total mark for each assessment (every assessment is out of what)	Mid term – 30%
No. of assessments need to be included in end of term 1 exam timetable	1 mid term
Duration of end of term exam/exams	50 mins

Mid Term1 Subject Details

Teacher's name: Miss Farihaan	
Subject: Global Perspectives & Research	
Year group: 12	
Mid Term1 Exam objectives:	
1.	Analyse arguments to understand how they are structured and on what they are based.
2.	Analyse perspectives and understand the different claims, reasons, arguments, views, and evidence they contain.
3.	Critically evaluate the strengths, weaknesses, and implications of reasoning in arguments and overall perspectives.
4.	Deconstruct texts and documents to evaluate and analyze information and formulate a critical analysis.

Topics and units covered/ Studying material/Any other information

Exam Preparation:

- Writing skills, critical analysis, and deconstruction of information.
- Topics that you may be questioned on include global issues:
 - Global Warming
 - Gender Inequality
 - Climate Change
 - Impact of the Internet
 - International Law – Ethics
 - Digital Futures
 - Raise of Global Superpowers
 - Technology and Lifestyles
 - Sustainable Futures
 - Freedom and Control
 - Resources and Sustainability
- Notes, articles, and written work completed for the above topics to be revised, as well as critical thinking, analysis, and deconstruction skills to be practiced.

Please use your class notes, worksheets, past assessments, and textbook for revision.

No. of assessments during the term (excluding the end of term exam)	1
Total mark for each assessment (every assessment is out of what)	30 Marks
No. of assessments need to be included in end of term 1 exam timetable	1
Duration of end of term exam/exams	1 hour

Term 1 Mid Term Subject Details

Teacher's name: MS Krishna	
Subject: ICT	
Year group:12	
Term 1 Mid Term Exam objectives:	
1.	Chapter 1: Define the differences between data, information, and knowledge
2.	Define static and dynamic data. Compare both.
3.	Define direct and indirect data sources. Advantages and disadvantages of both the sources
4.	Understand how the accuracy, relevance, age, level of detail and completeness of information can affect its quality.
5.	Describe coding of data. Its advantages and disadvantages
6.	Evaluate the need to encode data and analyse different methods
7.	Define and evaluate encryption. Discuss encryption protocols
8.	Define validation & verification and analyse range of validation & verification methods
9.	Define proof reading
10.	Chapter 2: Define hardware, evaluate internal, external hardware devices
11.	Explain the purpose of storage devices, input and output devices
12.	Define Software, evaluate different types of software
13.	Evaluate system software and application software
14.	Evaluate user interfaces & mental models
15.	Describe utility software, compare custom-written and off-the self-software
16.	Describe and evaluate a compiler and interpreter

Topics and units covered/ Studying material/Any other information
<p>Unit 1: Data, Information, Knowledge and processing</p> <ul style="list-style-type: none"> • Data, information, and knowledge • Sources of data • Quality of information • Coding, encoding, and encrypting data • Checking the accuracy of data

Unit 2:

Hardware & Software

- System, application, and user interface software
- Utility software
- Custom written software and off-the-shelf software
- Compiler and interpreter

Exam Preparation:

All power points are uploaded in the teams

Textbook - best resource. Read & understand Chapter1 and 2 thoroughly from the textbook.

No. of assessments during the term (excluding the end of term exam)	1 Mid Term Exam
Total mark for each assessment (Every assessment is out of what)	30%
No. of assessments need to be included in end of term 1 exam timetable	1
Duration of Mid Term Exam	1 hr

Mid-Term 1 Subject Details

Teacher's name: Ms. Mallika , Ms. Sameema Subject: Math – Pure Mathematics 1 Year group:12	
Exam objectives:	
1.	Algebraic expressions – To be able to multiply and divide integer powers, expand, and factorize expressions, know and use the law of indices, simplify and rationalize surds
2.	Quadratics – To be able to solve quadratic equations using factorization or completing the square, sketch the graph and find the turning point of a quadratic function, to interpret the discriminant of a quadratic expression.
3.	Equations and inequalities – To be able to solve linear and quadratic simultaneous equations, to solve linear inequalities, shading regions
4.	Graphs and transformations – To be able to sketch cubic graphs, reciprocal graphs, to find the points of intersection, to translate graphs
5.	Straight line graphs – to solve questions related to equations of straight lines, parallel and perpendicular lines, to find the length and area.

Topics and units covered/ Studying material/Any other information
<p><u>Algebraic expressions</u></p> <ul style="list-style-type: none"> • Index laws • Expanding brackets • Factorising • Negative and fractional indices • Surds • Rationalising denominators <p><u>Quadratics</u></p> <ul style="list-style-type: none"> • Solving quadratic equations • Completing the square • Functions • Quadratic graphs • The discriminant <p><u>Equations and inequalities</u></p> <ul style="list-style-type: none"> • Linear simultaneous equations • Quadratic simultaneous equations • Simultaneous equations on graphs • Linear inequalities

- Quadratic inequalities
- Inequalities on graphs
- Regions

Graphs and transformations

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

Straight line graphs

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

Exam preparation: Text book, Review exercises in the textbook, past papers

Safety rules regulations:

- Students must bring all their stationery.
- Students must bring their own calculators
- Students should answer all the exam paper in a black or blue pen.

No. of assessments during the term (excluding the end of term exam)	Mid-term assessment 1
Total mark for each assessment (every assessment is out of what)	60
Duration of mid-term exam	1 hours 10 minutes