

To: Year 12 Parents,

RE: CURRICULUM NEWSLETTER

Date: 22nd November

Our Academy Core Priorities 1st Safeguarding, 2nd Teaching and Learning

Our Key Tarbeya Theme - A Culture of Respect

Our Key Current Target - Ensuring that use of Microsoft 365 is an integral part of teaching and learning in every lesson

Dear Parent/Guardians,

Thank you for attending our parents consultation day. As a Headteacher you always want to see a large proportion of parents attend these sort of events as improving students outcomes is a joint effort. It was a real pleasure for me to have the opportunity to interface with our parents as this is such a challenge during a busy week at school. I was pleased with the general feedback which was really positive, especially when discussing what has developed and improved thus far. My PA will be sending a survey out to some of you to complete so that I can further understand your thoughts when considering our next steps.

The End of Semester exams are just around the corner and I would just like to direct you to our website for the Timetable, learning objectives, practice questions and other useful materials. Please do see the website for the End of Semester timetable which was updated on the 21st November. As you are aware we have introduced a new system called OWLTS this year in which students are tested online rather than paper. As per the mid semesters we will be completing the end of semester exams for Arabic, English, Maths and Science for years 7 – 9 using the OWLTS system. To further assist with your child's preparations for this process we will be giving the students access to a practice OWLTS test. The other subject areas will be completed on paper as previously experienced.

Below are some reminders about the exams:

- All students must wear full school uniform and ensure they come fully prepared with all the necessary equipment – **Tablet**, black pen, pencil, ruler, eraser, pencil sharpener, protractor, calculator, compass and highlighter. Students who arrive out of uniform may not be allowed to enter the exam hall.
- Years 7, 8, 9 and 10 students should arrive at school as normal during the examination period. They will be able to leave early as indicated on the exam timetable.

- Students should arrive at the examination venue 15 minutes before the start of the examination. If a student is late, they will enter only at the discretion of the invigilator. Please leave plenty of time to negotiate the traffic congestion outside the school.
- Year 11 and 12 students will be completing an exam paper which will feature as part of the End of semester report. Please remind your child/children to sign out should they leave school to study off site. As you will appreciate we need to know where all our students are as part of our duty of care.
- I remind students in Year 12 that the grade for Islamic Studies will feature in the report and all other results communications including for university. It is therefore both compulsory and essential that all Y12 students attend the exam.

We wish all our students the very best of success in their forthcoming exams and hope they will be rewarded for their efforts. We thank you for your continued support. Do not hesitate to contact the school if you would like any further clarification of these issues.

Yours faithfully
James Batts
Head of Secondary

Subject	Week Commencing 11 th and 18 th November 2018
AS Maths	<p>This week your child will be learning about the midpoint of a line, the distance between two points, and the equation of a circle (C2, Chapter 4, Coordinate geometry).</p> <p>The home learning this week will be to: https://app.myimaths.com/myportal/library/15/162 https://app.myimaths.com/myportal/library/15/161 https://app.myimaths.com/myportal/library/15/161#collapse4</p>
English	<p>This week your child will be learning to write extensively in specific narrative and descriptive genres.</p> <p>The home learning this week will be to write an extended essay independently.</p>

<p>Biology</p>	<p>This week your child will be learning:</p> <p>Explain how errors in DNA replication can give rise to mutations with reference to cystic fibrosis (CF) resulting from one of a number of possible gene mutations.</p> <p>Explain the terms gene, allele, genotype, phenotype, recessive, dominant, homozygote and heterozygote; monohybrid inheritance, including the interpretation of genetic pedigree diagrams in the context of traits such as cystic fibrosis (CF), albinism, thalassemia, garden pea height and seed morphology.</p> <p>Explain how the expression of a gene mutation in people with cystic fibrosis leads to impairment of the functioning of the gaseous exchange, digestive and reproductive systems</p> <p>Describe the principles of gene therapy and differences between somatic and germ line therapy.</p> <p>Explain the uses of genetic screening in the identification of carriers, preimplantation genetic diagnosis and prenatal testing (amniocentesis and chorionic villus sampling) and the implications of prenatal genetic screening.</p> <p>Identify and discuss the social and ethical issues related to genetic screening from a range of ethical viewpoints.</p> <p>Unit 2 Development, Plants and the Environment.</p> <p>Topic 3 – The voice of the genome</p> <p>Distinguish between eukaryotic and prokaryotic cells in terms of their structure and ultrastructure.</p> <p>Describe the ultrastructure of an animal (eukaryotic) cell (nucleus, nucleolus, ribosomes, rough and smooth endoplasmic reticulum, mitochondria, centrioles, lysosomes and Golgi apparatus) and recognize these organelles from EM images</p> <p>The home learning this week will be to:</p> <p>Past paper questions DNA synthesis</p>
<p>Chemistry</p>	<p>This week your child will be learning:</p> <p>a demonstrate an understanding that there are series of organic compounds characterised by a general formula and one or more functional groups</p> <p>b apply the rules of IUPAC nomenclature to compounds relevant to this specification and draw these compounds, as they are encountered in the specification, using structural, displayed and skeletal formulae</p> <p>c appreciate the difference between hazard and risk</p>

d demonstrate an understanding of the hazards associated with organic compounds and why it is necessary to carry out risk assessments when dealing with potentially hazardous materials. Suggest ways by which risks can be reduced and reactions can be carried out safely by:

i working on a smaller scale

ii taking specific precautions or using alternative techniques depending on the properties of the substances involved

iii carrying out the reaction using an alternative method that involves less hazardous substances.

ALKANES:

a state the general formula of alkanes and understand that they are saturated hydrocarbons which contain single bonds only

b explain the existence of structural isomers using alkanes (up to C₅) as examples

c know that alkanes are used as fuels and obtained from the fractional distillation, cracking and reformation of crude oil

d discuss the reasons for developing alternative fuels in terms of sustainability and reducing emissions, including the emission of CO₂ and its relationship to climate change

e describe the reactions of alkanes in terms of combustion and substitution by chlorine showing the mechanism of free radical substitution in terms of initiation, propagation and termination and using curly half-arrows in the mechanism to show the formation of free radicals in the initiation step using a single dot to represent the unpaired electron.

ALKENES

a state the general formula of alkenes and understand that they are unsaturated hydrocarbons with a carbon-carbon double bond which consists of a δ and a π bond

b explain E-Z isomerism (geometric/cis-trans isomerism) in terms of restricted rotation around a C=C double bond and the nature of the substituents on the carbon atoms

c demonstrate an understanding of the E-Z naming system and why it is necessary to use this when the *cis*- and *trans*- naming system breaks down

The home learning this week will be to:

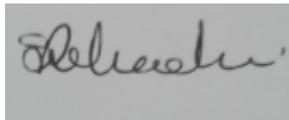
Past paper questions on alkanes and alkenes

<p>Physics</p>	<p>This week your child will be learning:</p> <p>Strength of materials</p> <p>*Obtain and draw force extension, force–compression, and tensile/compressive stress-strain graphs. Identify the limit of proportionality, elastic limit and yield point.</p> <p>*Investigate and use Hooke’s law, $F = k\Delta x$, and know that it applies only to some materials (Practical) .</p> <p>*Calculate the elastic strain energy E_{el} in a deformed material sample, using the expression $E_{el} = \frac{1}{2} F\Delta x$, and from the area under its force/extension graph.</p> <p>The home learning this week will be to:</p> <p>Past paper questions on strength of materials</p>
<p>ICT</p>	<p>Your child will be learning about the information age and how technology has changed overtime. They will be working on their coursework covering personal, social and professional aspects of technology. Deadline is the 12th of November for section B.</p> <p>Home Learning: Continue on working with their CW.</p>
<p>Business Studies</p>	<p>Your child will learn about: Measuring business performance</p> <p>Students will be learning about the various pricing strategies that a business can adopt e.g. cost-plus, competitive pricing, skimming etc. They will learn about the advantages and disadvantages of each and why business may need to adopt the strategies to respond to changes in the market.</p> <p>Home Learning: Exam practice questions on pricing strategies</p>
<p>BTEC Business Studies</p>	<p>Your child will learn about: Human Resources</p> <p>They will learn about the role of the human resources department and how they manage people within the work environment. They will discuss how businesses internally recruit their employees and the advantages/ disadvantages of doing this. They will also assess the importance of employability and personal skills in the recruitment and retention of staff in different businesses.</p> <p>Home Learning: Completion of coursework assignment</p>
<p>History</p>	<p>This week your child will be learning:</p> <p>The Golden Years of the Weimar Republic: politically and economically plus the Rise of the Nazi Party</p>

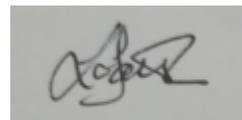
	The home learning this week will be to: Write an essay on the Golden Years and write an essay on the rise of the Nazi Party
BTEC Travel and Tourism	This week your child will be: Working through the assessed tasks from the unit The home learning this week will be to: continue the assessed tasks
Art	This week your child will be learning: A variety of skills using dry and wet materials in art and how to link their artist research to the independent study in the portfolio The home learning this week will be to: Artist research and annotations and write up about the current work to date
Global Perspectives	This week your child will be: Continuing with the team report research and write up The home learning this week will be to: continue with the team report research and write up
Arabic	This week your child will be learning: كتابة مقال عن حماية البيئة The home learning this week will be to: اكتب مقالاً عن أضرار التلوث البيئي
Islamic Studies	This week your child will be learning: "الحديث الشريف" من طريق الخير The home learning this week will be to: إجابة أسئلة كتاب النشاط صفحة 82

We hope you have enjoyed our weekly letter and look forward to receiving your feedback.

Yours sincerely,



Samira Rokadia
Deputy Head of Secondary (Academic)



James Batts
Head of Secondary