
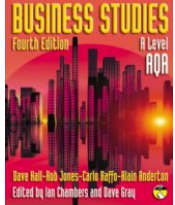
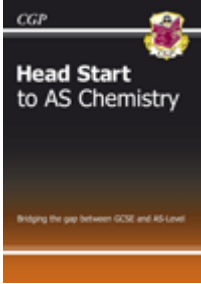



Hellesdon Taverham Sixth Form

Reading and tasks Lists for Year 12 starting in September 2010. Each department has prepared either a task or reading list, and in some case both, to prepare you for a good start in September. These tasks may give you some idea of what the courses you have chosen are about, and should provide a starting platform from which to enjoy and succeed the subjects.

Do not spend all the holiday working on theses, but make sure you devote several hours to each of the courses you have chosen.

<p>Biology</p>	<p>The book that we will be using is:</p> <p>OCR Biology AS</p> <ul style="list-style-type: none"> Published by Heinemann. Series editor: Sue Hocking <p>You can buy this book from any bookshop (RRP £18.99) or from Amazon for approximately £15.00 new. You will need to have your own copy of the book within 1 month of starting the course</p> <p>Your task:</p> <p>We will be spending a lot of time looking at microscopes.</p> <ul style="list-style-type: none"> Research light and electron microscopes. Produce flow charts explaining how each type of microscope works and how to use them. <p>Please complete this task by your first lesson in September.</p>	
<p>Business</p>	<p>Course book</p> <p>Business Studies A Level for AQA by Hall, Jones, Raffo, Anderton ISBN: 9781405892216</p> <p>Business in the news</p> <p>http://news.bbc.co.uk/1/hi/business http://news.bbc.co.uk/1/hi/programmes/working_lunch/4522724.stm http://business.timesonline.co.uk/tol/business http://www.guardian.co.uk/business</p> <p>AS Business websites</p> <p>http://www.bized.co.uk/ http://www.tutor2u.net/blog/index.php/economics/</p> <p>Business wider reading</p> <p>Freakonomics: A Rogue Economist Explores the Hidden Side of Everything by Steven D. Levitt, Stephen J. Dubner</p> <p>An excellent book that looks at the weird and wonderful coincidences in the data that underlines our beliefs in business and economics</p> <p>How I made it - 40 successful entrepreneurs reveal all by Rachel Bridge</p>	

	<p>This is a particularly useful book for AS Business in that it looks at real entrepreneurs and how they overcame obstacles to achieve success.</p> <p>From Acorns...how to build your brilliant business from scratch by Caspian Woods</p> <p>Again, a useful book in that it mirrors the AS syllabus looking at the ways that small businesses can overcome problems to become successful.</p> <p><u>Summer task – to be used in opening lessons in September</u></p> <p>To investigate the impact of the recent recession. With particular reference to:</p> <ul style="list-style-type: none"> • The effects of the recession on Gross Domestic Product (GDP), unemployment and the budget deficit • Examples of businesses that have struggled during the recession, with reasons • Examples of businesses that have thrived during the recession, with reasons • Strategies used by businesses to survive the recession 	
<p>Chemistry</p>	<p>Purchase the following textbook:</p> <p><i>TITLE:</i> “Head Start to AS Chemistry” <i>PUBLISHER:</i> CGP <i>ISBN:</i> 978 1 84762 116 0 <i>COST:</i> £4.95</p> <p>On purchasing the book do the following: Read “Section One - The Structure of the Atom” and in particular focus on the page 4 entitled “The Mole”. Using the contents page identify 2 or 3 sections you lack confidence in and read up on them.</p> <p>Enrol on the Chemistry Springboard Week</p> <p>The details will be provided on the taster day. (If you do not attend please come and see Me in D4 at Hellesdon High School for details. The course runs for 5 days from the <i>26th - 30th July 2010</i>. The course provides the ideal springboard for moving from GCSE to AS level Chemistry and beyond.</p> <p>Over the 5 day course you will be given the opportunity to: Study the important chemical ideas needed to make the transition to AS Chemistry Gain hands-on experience in the UEA School of Pharmacy Laboratories. Prepare and make a presentation. Have the opportunity to listen to guest speakers.</p> <p>This will look great on a future UCAS application if you decide to apply for a degree linked to Chemistry!!</p> <p>(Obviously if you have prior commitments this will not be possible.)</p>	

<p>Design & Technology : Graphics Task</p>	<p>Graphics are everywhere. It is hard to imagine any aspect of our lives that is not influenced or affected by graphic products. From what we wear, to what we eat, designers are using graphic products to persuade, sell and communicate things.</p> <p>Key Points</p> <ul style="list-style-type: none"> • Graphic products are uses pictures or words to sell, protect or communicate. • Graphic products can be 2D or 3D • The main elements of a graphic product are text, image and layout <p>Task 1</p> <p>Graphic Products at large</p> <p>Looking around your home and the outside environment, investigate the wide range of graphic products that surround us in everyday life. Produce on A3 paper, a detailed mind map to show the range of graphic products. This mind map can include pictures and notes. Starting with – Packaging, Corporate Identity Signs and Symbols, Promotion, Products that use graphics to sell, Interior design etc, etc.</p> <p>Task 2</p> <p>Product Disassembly</p> <p>You can get a clearer understanding of how a product is manufactured and put together by taking apart an existing product and examining its various parts or components. This will help you to work out:</p> <ul style="list-style-type: none"> • The function of the components • The materials used • The manufacturing processes used • The printing processes used <p>You are to disassemble a milkshake bottle, similar to the one in the picture. Present this work on A3 paper. You could use labelled sketches or digital photographs. You will need to research information</p> <p>Here is what to do: Stage 1: Work out the function of component parts: The cap The seal The bottle The label Stage 2 Work out the materials used Look at the plastic coding symbol on each part to check which type of plastic has been used and why Stage: 3 which manufacturing processes were used? The bottle is hollow The cap is solid The label fits tightly around the bottle The foil seal Stage 4 which printing processes were used?</p> <p>To be completed by first lesson in September.</p>	
<p>Drama and Theatre</p>	<p>Hi, AS Drama and Theatre Studies student.</p>	

Studies

Great to have you on board. This course has much practical work in it and you get opportunities to go to the theatre. Fantastic! However, it does include a lot of research, reading and written stuff, but don't be put off, because the written stuff is linked to the practical stuff.

Suggested preparation work for AS Drama & Theatre Studies

Research

1. Find out about the theatre practitioners Konstantin Stanislavski and Bertolt Brecht. There is much information on the internet. High-light any printed notes or make your own notes from them.
2. Find out about Joan Littlewood. (She is linked with the text you will be working on, which is 'Oh What A Lovely War'.)
3. Find out about the following people who were linked with WW1: Sir Douglas Haig, Sir John French, Emmeline Pankhurst, Archduke Ferdinand, Duchess of Hohenberg. (Any WW1 notes or knowledge will probably help you when working on 'Oh What A Lovely War'.

Stuff linked to drama seen or yet to be seen.

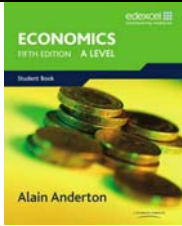
1. See at least one live performance and make notes on it. (Use one you have seen during the last year if you like.) Consider the following: title, playwright, genre, prior knowledge of the play and your expectations; venue, audience, time of performance; staging, set; plot and themes; dramatic intentions; costume, make-up, props; lighting, sound, special effects; characterisation, acting; use of specific theatre devices and techniques, e.g physical theatre, tableau, dumb show; best parts/not so good parts and why. Sketches help - a picture can replace a page of writing particularly if it is annotated! (Costume & set lend themselves to diagrams & sketches.)
2. If you are not able to see a live performance or have not seen one in the last year, watch a drama on television or on dvd and make notes on it using the above guide.
3. Watch as much live or filmed drama as possible. (Check out local theatre – there's lots on and you can get cheap tickets for most if you are a student. There are some tickets for £6 at Theatre Royal Norwich.)


Your drama and theatre experience so far

- Summarise your practical drama experience so far. (Do this as a diagram, as notes, as prose or poetry even or perhaps a monologue!)

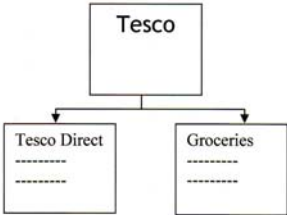
This seems like a lot to do but much of it is reflection on work or experiences you have already had. Some is like relaxation! The new stuff is so that you will have a bit of background for the set text (which is studied practically) and the work of two practitioners that could influence your final practical piece and how you interpret text.

Enjoy your summer. See you in September (with your work of course).

	Elizabeth Fereday Head of Drama and your AS teacher		
Economics	<p><u>Course book</u></p> <p>A Level Economics for Edexcel by Alain Anderton, fifth edition, ISBN 978-1-40589-228-5</p> <p><u>Economics in the news</u></p> <p>http://news.bbc.co.uk/1/hi/business/economy/default.stm</p> <p>http://business.timesonline.co.uk/tol/business/economics/</p> <p>http://www.guardian.co.uk/business/economics</p> <p><u>AS Economics websites</u></p> <p>http://brynsaseconomicsblog.blogspot.com/</p> <p>http://www.tutor2u.net/blog/index.php/economics/</p> <p><u>Economics wider reading</u></p> <p>Freakonomics: A Rogue Economist Explores the Hidden Side of Everything by Steven D. Levitt, Stephen J. Dubner</p> <p>The Undercover Economist by Tim Harford</p> <p>Everlasting Light Bulbs: How Economics Illuminates the World by John Kay</p> <p>Sex, Drugs, and Economics: An Unconventional Introduction to Economics by Diane Coyle</p>		
English Language	<p>Reading suggestions, which would offer an introduction to the ideas and topics to be covered on the course.</p> <p>Troublesome Words - Bill Bryson</p> <p>The Adventure of English - Melvyn Bragg (Book or TV series)</p> <p>Mother Tongue - Bill Bryson</p> <p>The English Language: A Guided Tour of the Language - David Crystal</p> <p>The Cambridge Encyclopedia of the English Language - David Crystal</p> <p>My Grammar and I - Caroline Taggart and J A Wines</p> <p>Eat, Shoots and Leaves - Lynn Truss</p>		
English Literature	Hellesdon Group	<p>Core texts (which you must read)</p> <p>King Lear - William Shakespeare</p> <p>Doctor Faustus - Christopher Marlowe</p> <p>Brighton Rock - Graham Greene</p> <p>A Clockwork Orange Anthony Burgess</p>	

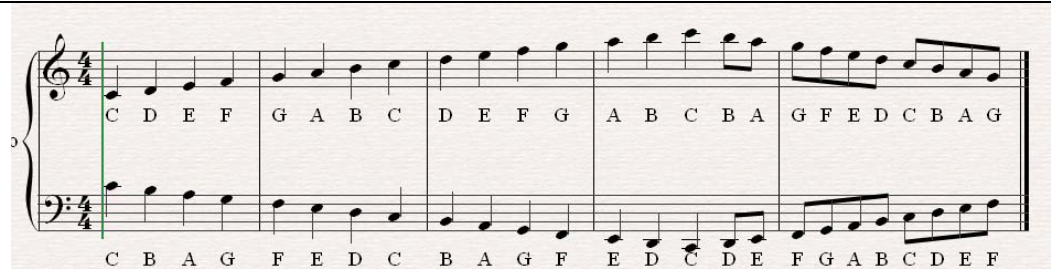
		<p>Useful supporting material</p> <p>Other Elizabethan/Jacobean tragedy e.g.</p> <ul style="list-style-type: none"> • Middleton - The Changeling • Webster - The Duchess of Malfi • Shakespeare Othello, Hamlet etc <p>A few twentieth century classics e.g.</p> <ul style="list-style-type: none"> • 1984 - George Orwell • Brave New World - Aldous Huxley • The Power and the Glory - Graham Greene. • Uncommon Danger Danger - Eric Ambler • The Secret Agent -- Joseph Conrad <p>Useful links</p> <p>http://www.edexcel.com/quals/gce/gceo8/english/lit/Pages/default.aspx</p>
	Taverham Group	<p>Brighton Rock Graham Greene</p> <p>The Woman in White Wilkie Collins</p> <p>A Sherlock Holmes story</p> <p>Plus any of the following</p> <p>An Agatha Christie Story</p> <p>The Moonstone Wilkie Collins</p> <p>The Suspicions of Mr Whicher Kate Summerscale</p> <p>Any book by Dickens, Thomas Hardy</p>
French	<p>Over the summer holidays, between GCSE exams and starting the AS French course, practising the language in a French-speaking country would be the best preparation of all. But even in Norfolk, with an internet connection, you can still visit...</p> <p>Ma France!</p> <p>This is an online course from the BBC, made up of 24 interactive video units:</p> <p>Go to http://www.bbc.co.uk/languages/french/mafrance/</p> <p>Work through the course, one unit at a time, going through the grammar sections and the activities to practise the language covered in each.</p> <p>You have the option of registering with the BBC and keeping track of your progress, and the transcripts of each unit are available to download.</p> <p>Mon JT quotidien</p> <p>This is worth a browse every so often: a French site for young people, with plenty of topical videos for you to practise listening skills.</p> <p>http://www.monjtquotidien.com/</p> <p>AS course book</p> <p>For your information, the book we will be using from September is:</p>	

	<p>AQA French AS: Student's Book</p> <p>Publisher: Nelson Thornes; New edition (21 May 2008)</p> <p>ISBN-10: 0748798072 / ISBN-13: 978-0748798070</p> <p>Paperback: 128 pages</p>	
Geography	<p>During the summer holidays we would like you to complete the following task ready for your first lesson in September:</p> <ul style="list-style-type: none"> • Read a Good newspaper • Make a scrap book with any articles you find on population, rivers and healthcare. • Write a brief summary on each article. <p>Building this portfolio of case studies will be invaluable.</p>	
German	<p>Over the summer holidays, between GCSE exams and starting the AS German course, practising the language in a German-speaking country would be the best preparation of all. But even in Norfolk, with an internet connection, you can still visit...</p> <p>Deutsch plus This is an online course from the BBC, made up of 10 on-line topics:</p> <p>Go to: http://www.bbc.co.uk/languages/german</p> <p>These 10 online topics are based on the 20-part TV series and build on the absolute basics of Talk German. The programmes are repeated regularly on BBC Learning Zone (TV transcripts are available).</p> <p>Watch and listen to the clips and have a look at the key language and transcripts if needed.</p> <p>Also, on the same site, What's so funny about German? Stand-up comedian, Henning Wehn, takes a humorous look at the German language in ten short videos.</p> <p>+ try to take a regular look at the main stories and headlines of the summer on the web-sites of some of Germany's most popular newspapers and magazines :</p> <p style="text-align: center;">www.bild.de www.spiegel.de www.bravo.de</p> <p><u>AS COURSE BOOK</u></p> <p>The book we will be using from September is:</p>	

	<p>AQA German AS: Student's Book</p> <p>Publisher: Nelson Thornes; New edition (21 May 2008)</p> <p>ISBN-10: 0748798124 / ISBN-13: 978-0748798124</p> <p>Paperback: 128 pages</p>	
<p>History</p>	<p>Listed below are some of the books used in AS History. If you could refer to some over the holiday, it would be a great advantage.</p> <p style="text-align: center;"><u>A brief reading list for History of Russia from Tsars to the Revolution</u></p> <p>Reactions and Revolutions 1881-1924 by Michael Lynch</p> <p>Russia in Revolution 1881-1924: From Autocracy to Dictatorship by Derrick Murphy</p> <p>Stalin's Russia 1924 – 1953 by Robin Bunce and Laura Gallagher</p> <p>Communist Russia under Lenin and Stalin by Chris Corin and Terry Fiehn</p> <p style="text-align: center;"><u>A brief reading list for AS History - Henry VIII</u></p> <p>Elton G R — <i>Reform and Reformation, 1509—1558</i>, chapters 3 and 4 (Arnold, 1977)</p> <p>Anderson A and Imperato T — <i>An Introduction to Tudor England, 1485—1603</i> (Hodder Murray, Access to History Context, 2001)</p> <p>Alison Weir 'The Six Wives of HenryVIII'. (Vintage, 2007).</p> <p>Alison Weir 'Henry VIII: King and Court' (Vintage, 2008).</p> <p>Rogerson D, Ellsmore S and Hudson D — <i>The Early Tudors: England, 1485-1558</i> (Hodder Murray, 2001)</p>	
<p>ICT</p>	<p><u>Organisations and ICT</u></p> <p>Tesco is a large organisation that markets goods and services both in-store and online. You are required to evaluate Tesco's website.</p> <p>Instructions:</p> <p>These tasks should be typed-up using a Word document and should be completed as an introductory assignment - ready for your return to school in September 2010. You will need Internet access to complete this task successfully.</p> <p>Task 1:</p> <p>Firstly, make a detailed list of all the services and information items Tesco offers its customers using their website.</p> <p>Create a structure diagram and divide these into categories - adding details to the headings. (See example below for layout)</p> <div style="text-align: center;">  <pre> graph TD Tesco[Tesco] --> TescoDirect[Tesco Direct] Tesco --> Groceries[Groceries] TescoDirect -.-> D1[-----] TescoDirect -.-> D2[-----] TescoDirect -.-> D3[-----] Groceries -.-> G1[-----] Groceries -.-> G2[-----] Groceries -.-> G3[-----] </pre> </div>	

	<p><u>Task 2:</u> Choose at least 3 products that Tesco offers its customers from its website to investigate. Comment using screenshots and descriptions of at least 5 different browsing (navigation) methods available to the user to locate these chosen products on their website.</p> <p><u>Task 3:</u> All aspects of Tesco's business are integrated using ICT and its business encompasses all aspects of ICT. Make a detailed list of areas of Tesco's business that need ICT in order to function and operate on a day-to-day basis.</p> <p><u>Task 4:</u> What are the advantages and disadvantages to Tesco for using the Internet to advertise its products and services to its customer's?</p> <p><u>Task 5:</u> In your opinion, why have Tesco been more successful than other companies in establishing a strong Internet business base?</p>	
Maths & Further Maths	See Separate sheet	

Media Studies	You should aim to develop a working knowledge of texts of a variety of genres, eras and directors.	
	Some key texts might include:	
	Silent Films Birth of a Nation (dir: Griffiths 1915) Battleship Potemkin (Eisenstein 1925) Nosferatu (Murnau 1922) Metropolis (Fritz Lang 1927) City Lights (Chaplin 1931)	Sci-fi/Fantasy Forbidden Planet (Wilcox 1956) Star Wars (Lucas 1977) Close Encounters of the Third Kind (Spielberg 1979) Alien (Scott 1979) Terminator (Cameron 1984) Blade Runner (Scott 1982) The Matrix (Wachowski 1999) Lord of the Rings Trilogy (Jackson 2001-03) Harry Potter series (Various 2001-present)
	The Gangster Movie Angels with Dirty faces (Curtiz 1938) Little Caesar (leRoy 1931) White Heat (Walsh 1949) High Sierra (Walsh 1941) The Godfather (Coppola 1972) Goodfellas (Scorsese 1990) The Untouchables (de Palma 1987)	The Western Stagecoach (Ford 1939) The Searchers (Ford 1956) The Magnificent Seven Sturges 1960) High Noon (Zinnemann 1952) Shane (Stevens 1953) The Good the Bad and the Ugly (Leone 1966) Unforgiven (Eastwood 1992) Little Big Man (Penn 1970)
	The Horror Movie White Zombie (Halperin 1932) The Bride of Frankenstein (dir: Whale 1935) The Black Cat (dir: Ulmer 1934) Cat People (dir: Tourneur 1945) Dracula (dir: Fisher 1958) Halloween (Carpenter 1978) The Omen (Donner 1976) Scream (Craven 1996) The Blair Witch Project (Myrich/Sanchez 1999)	The Musical Top Hat (Sandrich 1935) Singing in the Rain (Donen/Kelly 1952) West Side Story (Robbins/Wise 1961) Chicago (Marshall 2002) The Sound of Music (Wise 1965)
Some Key Directors Alfred Hitchcock Orson Welles John Ford Frank Capra Roman Polanski Francis Ford Coppola Martin Scorsese Woody Allen David Lynch Tim Burton	Reading There are no core written texts associated with this course. However, you may wish to introduce yourself to some of the key concepts by referring to any one of the following texts: AS/A-level Media Studies Essential Word Dictionary (Essential Word Dictionaries) by David Probert Revision Express AS and A2 Media Studies by Mr Ken Hall and Philip Holmes (Paperback - 19 Nov 2008) The Media Students Book by Gill Branston and Roy Stafford	
Music	This is a list of things you will be expected to know and understand prior to the commencement of the course. It will be assumed that you understand the musical terms. If not then these are words you should learn. Some basics: You should be able to identify Treble & Bass Clefs, Time Signatures and Middle C, as well as all the notes names	



Musical Terms

These are words that you should be familiar with. If you are not should you look them up as they will be used in most lessons:

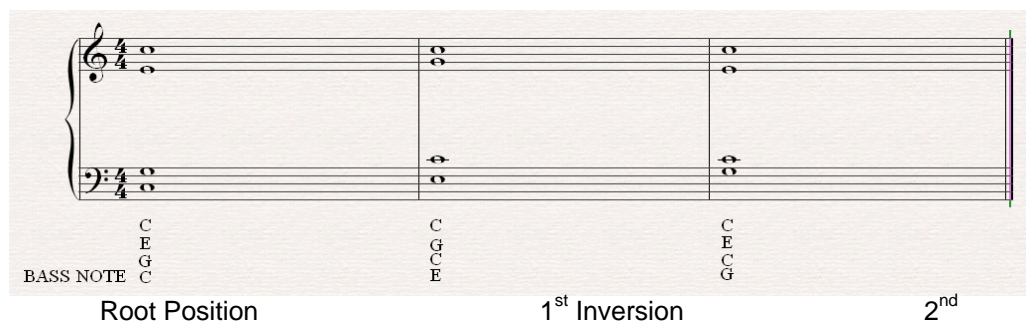
Rhythm, Texture, Timbre, Pitch, Duration, Ostinato, Sequence, Imitation, Pedal, Drone, Binary Form, Ternary Form, Rondo Form, Theme & Variations

Chords

Chords can be played in different positions which depends on which note of the chord is in the Bass line.

Root Position:	The bass note is bottom note of the chord
1 st Inversion:	The middle note of the chord (the 3 rd) is the bass note
2 nd Inversion:	The upper note of the chord (the 5 th) is the bass note

This example uses the C Major chord (C, E, G)



Inversion

SATB

This stands for Soprano, Alto, Tenor, Bass and refers to the voice parts in 4 part harmony. The example above shows how the 4 parts should be arranged on the staff with S,A on the treble staff and T, B on the bass staff

Cadences

Cadences are the musical full stops, and mark the natural points to mark the end of phrases. They involve just 2 chords, the final chord and the penultimate. There are 4 cadences:

Cadence	Chords
Perfect	V – I
Plagal	IV – I
Imperfect	? – V
Interrupted	V – VI

Roman Numerals & Degree of the Scale

Roman Numerals are used describe chords in music. Each note in a scale is described by a term know as the degrees of the scale. These words will be used regularly.

Note in scale	Roman Numeral	Degree
---------------	---------------	--------

1	I	TONIC
2	II	SUPERTONIC
3	III	MEDIANT
4	IV	SUB DOMINANT
5	V	DOMINANT
6	VI	SUB MEDIANT
7	VII	LEADING NOTE

Key Signatures

The Key Signature defines the pitch of the music. It is identified at the start of the music, in key changes and also during modulations (look this word up). You should be familiar with key signatures up to 4 sharps and flats. Key Signatures are used for both Major and Minor Keys. This example shows Key Signatures in both treble and bass clef and the major and minor keys.

Instrument of the Orchestra

You should be familiar with the names of all the instruments of the orchestra and the family in which they belong. You should also be able to recognise the sound of the family of instruments and be able to identify the individual instrument.

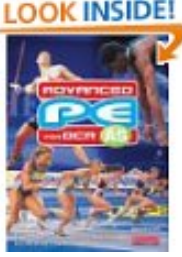
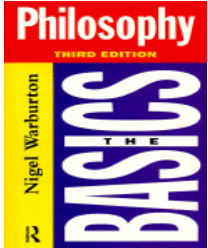
String	Woodwind	Brass	Percussion
Violin	Piccolo	Trumpet	Drums (Timpani)
Viola	Flute	French Horn	Xylophone
Cello	Clarinet	Trombone	Tubular Bells
Double Bass	Cor Anglais	Tuba	Glockenspiel
Oboe	Bassoon	Euphonium	Cymbals
Harp	Saxophone		Auxiliary

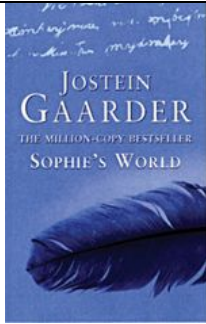
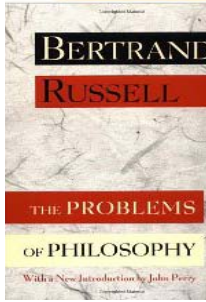
The Piano is a solo instrument but technically it belongs to the Percussion family

Pre Course Listening

During the course there are 10 set works which you will study. It would be a good idea if you try to familiarise yourself with as many of these pieces as possible. It would be better to focus on a couple from each list instead of listening to them all just once. You can use any recording but there are many good links on Spotify and YouTube.

Composer	Title
Instrumental Music	
Tippet	Concerto for Double String Orchestra – Movement 1
Webern	Quartet Opus 22 – Movement 1
Haydn	String Quartet in Eb Opus 33. No 2 – ‘The Joke’
JS Bach	Partita No. 4 in D. – Sarabande and Gigue
Vocal Music	
Berio	Sequenza III for female voice
Bruckner	Locus Iste
Dowland	Flow My Tears
Gershwin	‘Summertime’ from Porgy and Bess
Desmond Dekker	You can get it if you really want it

	Oasis	Don't Look Back in Anger
P. E.	<p>Conclusion Whilst this material may seem quite long you should know most of this already through your GCSE and general musical knowledge. If there are any areas you are very concerned about please do not hesitate to contact Mr Brown at Hellesdon High School as soon as possible and he will arrange for a few pre A Level lessons.</p>	
AS Philosophy/R.S.	<p>These are books that may help you out, the first one is a good introduction and the second one presents philosophical ideas in a novel. The third book is for anyone who wants a bit more of a challenge. Enjoy! If you have any questions please contact Mr Claydon or Dr Frye at Hellesdon High School.</p> <p><u>The Basics – Philosophy by Nigel Warburton</u></p> <p>The Basics" is an introduction to philosophy for anyone studying the subject for the first time. It takes a topic-based approach, each chapter considering an area of philosophy and outlines a number of key philosophical issues associated with the area.</p> <p><u>Sophie's World by Jostein Gaarder</u></p> <p>When 14-year-old Sophie encounters a mysterious mentor who introduces her to philosophy, mysteries deepen in her own life. Why does she keep getting postcards addressed to another girl? Who is the other girl? And</p>	
	<p>Course Textbook:</p> <p>AS PE for OCR - Carnell, Ireland, Mackreth, Miller and Van Wely. Published by: Heinemann – ISBN 978-0-435466-77-0</p> <p>Course Revision Book:</p> <p>AS PE for OCR: Revision Guide Published by Heinemann – ISBN 978-0-435466-81-7</p> <p>Useful websites: www.pponline.co.uk www.brianmac.co.uk</p> <p>Relevant Magazines:</p> <p>Runner World (often contains A+P relevant articles on musculoskeletal issues)</p> <p>Relevant Newspapers:</p> <p>The Times (Sunday Sport Supplement) The Guardian (Sport Section and website)</p>	
		

	<p>who, for that matter, is Sophie herself? To solve the riddle, she used her new knowledge of philosophy, but the truth is far stronger than she could have imagined. A phenomenal, worldwide bestseller.</p> <p><u>The Problems of Philosophy by Russell Bertrand</u></p> <p>Russell's famous introduction is more challenging than the other two books, but will give you a very good place to start.</p>	 <p>Click to LOOK INS</p> 
Photography	The Photobook published by Phaidon: Ian Jeffrey paperback £7.95	
Physics	<p>Please complete the multiple choice quiz at the end of this document.</p> <p>All the questions come from past A-Level questions. As such you are not expected to know all of them now. You will be familiar with the content for some questions, but others will require you to research into the topics using the internet or books.</p> <p>The textbooks that will be used on the course are the AQA Physics A AS & A2 books, written by Jim Breithaupt and published by Nelson Thornes. If you do not wish to purchase these prior to starting the course, then you will be able to find the information you need on the internet. If you have any questions about the task or you require a pdf copy of the task, you will be able to contact me via the department e-mail address: hellesdonphysics@hotmail.co.uk.</p> <p>Please complete by first lesson in September.</p> <p>Good luck!</p>	
Psychology	<p>Choose a psychologist and prepare an A4 poster</p> <p>It should include:</p> <ul style="list-style-type: none"> ✓ A photo of them (and any of their research if available) ✓ A short biography, including their date of birth etc ✓ A quote ✓ A summary of their research <p>Do NOT copy and paste. The aim is to familiarise yourself with psychological research and the background to the studies you will have to know about.</p> <p>Deadline: first lesson in Sept</p>	

Recommended Reading: Not compulsory, but for interested students in year 11.

I suggest you find these in your local library. They are intended to broaden your understanding of psychology, so I do not recommend that you buy them.

The Man Who Mistook His Wife for a Hat and Other Clinical Tales by [Oliver W Sacks](#) (Author) ISBN 978-0684853949

Genie: A Scientific Tragedy by [Russ Rymer](#) (Author) ISBN 978-0060924652

Difficult Conversations: How to Discuss What Matters Most
by [Bruce Patton](#), [Douglas Stone](#), [Sheila Heen](#) ISBN-13: 978-0140277821

Detecting Lies and Deceit: The Psychology of Lying and Implications for Professional Practice by [Aldert Vrij](#) (Author) ISBN-13: 978-0471853169

Opening Skinner's Box: Great [Psychological Experiments of the 20th Century](#) by Lauren Slater

[Psychologists on Psychology](#)

David Cohen

The Three Faces of Eve

(multiple personalities)

Corbett H. Thigpen

[Psychologists on Psychology](#)

(interviews with psychologists)

David Cohen

Trainspotting

(about addiction)

Irvine Welsh

Any of these is worth watching, and you should be aware of the Psychological theme behind each.

Film	Theme
A Beautiful Mind	Schizophrenia
A Clockwork Orange	Conditioning
American History X	Racial Stereotypes and Violence
Analyse This/Analyse That	Therapy
Antz	Conformity and minority influence
As Good As It Gets	OCD
Awakenings	Brain Disorder
Conspiracy	Group decision making
Cool Hand Luke	Zimbardo
Cracker	General Interest: Criminal Profiling
Daddy Daycare	Daycare (cognitive vs social development)
Das Experiment	Zimbardo
Finding Nemo	Memory Loss
Gathering Storm	Decision Making
Girl, Interrupted	Mental Illness
High Anxiety	Anxiety and therapies
Identity	Schizophrenia
Insomnia	Biological Rhythms
K-PAX	Mental illness - or not!
Matchstick Men	OCD

	Matrix/Matrix Reloaded	Free-will V determinism
	Mean Girls	Indirect Aggression
	Memento	Memory
	Mockingbird Dont Sing	Attachment - Genie
	Natural Born Killers	Media violence
	One Flew Over the Cuckoo's Nest	Mental illness, institutionalisation
	Patch Adams	General Interest
	Primal Fear	MPD/DID
	Rain Man	Autism
	Rebel Without a Cause	Adolescence
	Twelve Angry Men	Minority influence
Sociology	<p>Log on to... www.sociology.org.uk</p> <p>Then:</p> <p>Click on link to AS Sociology AQA</p> <p>Then:</p> <p>Read the links found in the Introduction section.</p> <p>If you are really keen, you may wish to read more of the other sections, but we expect you to have read the Introduction section at least.</p> <p>Enjoy! We look forward to seeing you in September.</p>	

1. Which one of the following statements concerning a thermal nuclear reactor containing uranium is correct?

If the amount of fissile material in the reactor exceeds the critical mass, the fission reactions

- A** can be controlled by a suitable absorber of neutrons.
B can be controlled by a suitable moderating material.
C can be controlled if the coolant flows at a fast rate.
D cannot be controlled.
2. Which one of the following statements is not true about the control rods used in a nuclear reactor?
A They must absorb neutrons.
B They must slow down neutrons to thermal speeds.
C They must retain their shape at high temperatures.
D The length of rod in the reactor must be variable.
3. The sound quality of a portable radio is improved by adjusting the orientation of the aerial. Which statement is a correct explanation of this improvement?
A The radio waves from the transmitter are polarised.
B The radio waves from the transmitter are unpolarised.
C The radio waves become polarised as a result of adjusting the aerial.
D The radio waves become unpolarised as a result of adjusting the aerial.
4. For a particle moving in a circle with uniform speed, which one of the following statements is incorrect?
A The velocity of the particle is constant.
B The force on the particle is always perpendicular to the velocity of the particle.
C There is no displacement of the particle in the direction of the force.
D The kinetic energy of the particle is constant.
5. In order to produce interference effects with visible light, coherent sources must be used. The waves produced by these sources do not need to have the same
A amplitude.
B frequency
C wavelength.
D photon energy⁷.
6. Which line, **A** to **D**, in the table gives a combination of materials that is commonly used for moderating, controlling and shielding respectively in a nuclear reactor?

	moderating	controlling	shielding
A	graphite	carbon	lead
B	cadmium	carbon	concrete
C	cadmium	boron	lead
D	graphite	boron	concrete

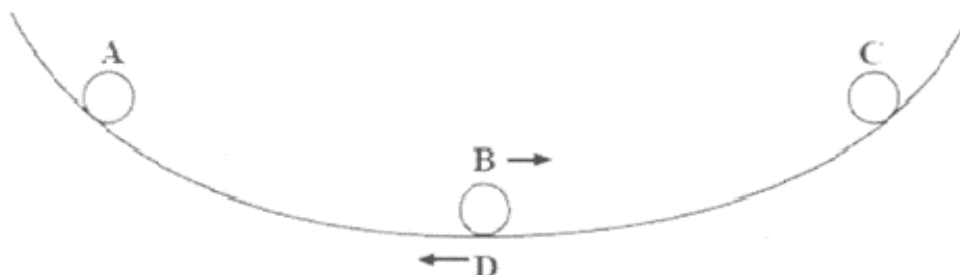
7. Which one of the following is not a unit of magnetic flux?

- A** NmA^{-1}
B Wb
C Tm^2
D Vs^{-1}

8. By approximately how many times is the wavelength of audible sound waves greater than the wavelength of light waves?
- A** 10^2
B 10^6
C 10^{10}
D 10^{14}
9. Which one of the following statements is correct?
The force acting on an object is equivalent to
- A** its change of momentum
B the impulse it receives per second.
C the energy it gains per second
D its acceleration per metre
10. A particle oscillates with undamped simple harmonic motion. Which one of the following statements about the acceleration of the oscillating particle is true?
- A** It is least when the speed is greatest.
B It is always in the opposite direction to its velocity.
C It is proportional to the frequency
D It decreases as the potential energy increases.
11. A loudspeaker produces sound waves in air of wavelength 0.68 m and speed 340 m s^{-1} . How many cycles of vibration does the loudspeaker diaphragm make in 10ms?
- A** 5
B 10
C 50
D 100
12. Which row, **A** to **D**, in the table correctly shows the quantities conserved in an inelastic collision?

	mass	momentum	kinetic energy	total energy
A	conserved	not conserved	conserved	conserved
B	not conserved	conserved	conserved	not conserved
C	conserved	conserved	conserved	conserved
D	conserved	conserved	not conserved	conserved

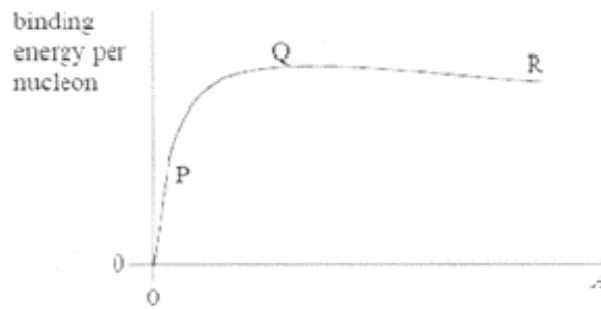
13. A ball bearing rolls on a concave surface, as shown in the diagram, in approximate simple harmonic motion. It is released from A and passes through the lowest point B before reaching C. It then returns through the lowest point D. At which stage, A, B, C or D, does the ball bearing experience maximum acceleration to the left?



14. The time period of a simple pendulum is doubled when the length of the pendulum is increased by 3.0 m. What is the original length of the pendulum?

- A 1m
- B 1.5 m
- C 3.0m
- D 6.0 m

15.



The graph shows how the binding energy per nucleon of a nucleus varies with nucleon number, A . Which one of the following statements is not true?

- A Energy is released in nuclear fission reactions from nuclei in region R
- B Nuclei in region Q are more stable than nuclei in region R.
- C Nuclear fusion reactions bring nuclei closer to region Q.
- D The binding energy per nucleon increases most significantly at lower nucleon numbers.