



SIR THOMAS RICH'S
GLOUCESTER

Suggested A Level Reading Lists – 2020 Entry

The Sir Thomas Rich's *Sixth Form Prospectus 2020-21* featuring a full A Level course listing and entry requirements is available online as a PDF at www.strschool.co.uk/sixthform.

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Art

Drawing Projects, An Exploration of The Language of Drawing (Mick Maslen and Jack Southern)

Raw + Material = Art (Tristan Manco)

Cornelia Parker (Iwona Blazwick, Forward by Yoko Ono)

Biology

Head Start To A Level Biology (CGP Books)

A Short History Of Nearly Everything (Bill Bryson)

Life On Earth (David Attenborough)

The Selfish Gene (Richard Dawkins)

Wilding: The Return Of Nature To A British Farm (Isabella Tree)

Bad Science (Ben Goldacre)

The New Scientist (magazine)

<https://biology-online.org>

<http://www.cellsalive.com>

<http://www.biologymad.com>

Business

Priceless: The Hidden Psychology of Value (William Poundstone)

In The Plex: How Google Thinks, Works and Shape Our Lives (Steven Levy)

Triumph of the City: How Our Greatest Invention Makes Us Richer, Smarter, Greener, Healthier and Happier (Edward L Glaeser)

Alibaba: The House that Jack Ma Built – the rise of the Chinese corporate giant (Duncan Clark)

Risk Savvy – How to make good decisions – the world of heuristics and risk management (Gerd Gigerenzer)

Grave New World: (Stephen King) – Former head of Econ at HSBC looks at the fracturing global economy

Almighty Dollar (Dharshini David) – follows the journey of a single \$ to show how the global economy works

Upstarts: How Uber and Airbnb are changing the world (Brad Stone) Follow up to his work on Amazon

The Everything Store: Jeff Bezos and the Age of Amazon (Brad Stone) – a great business page turner

The Box – How the Shipping Container Made the World Smaller and the World Economy Bigger, (Levinson)

Chemistry

Atkin's Molecules (Atkins)

Interesting look at fundamentals in chemistry; some say "the most beautiful book ever written"!

Why Chemical Reactions Happen (Keeler & Wothers)

Provides the reader with all the tools and concepts needed to think like a chemist avoiding the traditional divisions of physical, inorganic and organic chemistry.

A Guidebook to Mechanism in Organic Chemistry (Sykes)

A classic textbook on mechanistic organic chemistry which is characterised particularly by its clarity and careful choice of examples.

Foundation In Organic Chemistry (Hornby & Peach)

Advanced high-school and beginning undergraduate students will find this book a readable and stimulating summary of the fundamentals of organic chemistry

Chemistry Review (Journal)

Everyday and up to date issues in chemistry.

Chemguide website: <https://chemguide.co.uk>

Comprehensive and helpful website.

Education in Chemistry (Journal)

Everyday and up to date issues in chemistry.

Chemistry³ (Burrows, Holman et al)

Uniquely amongst the introductory chemistry texts currently available, Chemistry³ is written by a team of chemists to give equal coverage of organic, inorganic and physical chemistry – coverage that is uniformly authoritative.

OCR Chemistry AS and A Level (Older & Smith)
Alternative textbook.

Chemical Storylines (Salters)

The chemical storylines and related data include recent developments and they are split clearly into AS and A2 units so that they make moving from one level to the next more logical for students.

Chemistry In The Market Place (Seliger)

Provides a fascinating and at times amusing insight into the real world uses of chemicals.

The Disappearing Spoon (Keane)

Why did Gandhi hate iodine (I, 53)? Why did the Japanese kill Godzilla with missiles made of cadmium (Cd, 48)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why did tellurium (Te, 52) lead to the most bizarre gold rush in history?

Synoptic Skills In A Level Chemistry (Hill)

This book provides the ideal advice and practice in preparing students for the new synoptic element of Chemistry A Level.

Access To Advanced Chemistry Workbook (Baker Et Al)

Student-friendly presentation of key concepts .Interactive format enables students to test themselves throughout. Contains valuable worked examples. All answers are provided so that the book can be used for self-study.

Serendipity (Roberts)

Many of the things discovered by accident are important in our everyday lives: Teflon, Velcro, nylon, x-rays, penicillin, safety glass, sugar substitutes, and polyethylene and other plastics.

Periodic Tales (Aldersley-Williams)

The phenomenal Sunday Times bestseller Periodic Tales, packed with fascinating stories and unexpected information about the building blocks of our universe.

Computer Science

AQA Specification A Level Computer Science 7157

www.aqa.org.uk/subjects/computer-science-and-it/as-and-a-level/computer-science-7516-7517

Computational Fairy Tales (Jeremy Kubica)

Computer Science For Fun website: www.cs4fn.org

Bebras Challenge website: <https://challenge.bebras.uk>

Plus any reading material related to Python, SQL, C# and Essential Programming skills.

Economics

Capitalism Without Capital: The Rise Of The Intangible Economy (Haskel And Westlake)

Choice Factory (Richard Shotton)

A story of 25 behavioural biases that influence what we buy.

Doughnut Economics (Kate Raworth)

Challenges much of orthodox thinking in the subject.

Great Economists: How Their Ideas Can Help Us Today (Linda Yueh)

Perspectives on contemporary issues.

Growth Delusion: The Wealth and Well-Being of Nations (David Pilling)

Antidote to gospel of GDP.

Inequality (Anthony Atkinson)

A superb book on one of the defining economic/political issues of the age.

Inner Lives of Markets: How People Shape Them – And They Shape Us (Sharman and Fishman)

Limits of the Market: The Pendulum Between Government And The Market (Paul De Grauwe)

Misbehaving: The Making Of Behavioural Economics (Richard Thaler)

A truly superb biography.

Plundered Planet: How to Reconcile Prosperity with Nature (Professor Paul Collier)

Development classic.

Poor Economics: Rethinking Ways to Fight Global Poverty (Banerjee & Duflo)

Development economics.

Positive Linking: Networks and Nudges (Paul Ormerod)

Good introduction to network economics.

English Literature

As You Like It (William Shakespeare)

The Kite Runner (Khaled Hosseini)

Cat On A Hot Tin Roof (Tennessee Williams)

Far From The Madding Crowd (Thomas Hardy)

Nights At The Circus (Angela Carter)

Waterland (Graham Swift)

The Remains Of The Day (Kazuo Ishiguro)

The Child In Time (Ian McEwan)

Jane Eyre (Charlotte Bronte)

French

Zut! Exercises based on Year 12 topics, free 4pm-9am: www.zut.org.uk/advanced/year12.html

TV5 Monde, series of interactive exercises based on a wide range of video clips:

<https://enseigner.tv5monde.com>

French language publications:

www.lexpress.fr

www.phosphore.com

Geography

Prisoners of Geography (Tim Marshall)

Bottom Billion (Paul Collier)

Worth Dying For (Tim Marshall)

Factfulness: Ten Reasons We're Wrong About The World – And Why Things Are Better Than You Think (Hans Rosling)

Geology

Geology for A Level and AS (Stephen Davies et al)

Geology, A Complete Introduction (David Rothery)

Geology: A Very Short Introduction (Jan Zalasiewicz)

Fossils at a Glance (Claire Milsom, Sue Rigby)

German

Gut! Exercises based on Year 12 topics, free 4pm-9am:

<http://gut.languageskills.co.uk/advanced/year12.html>

Goethe Institute, A Level materials of various levels of difficulty: www.goethe.de

German language publications:

www.zeit.de

www.welt.de

www.fr-online.de

www.faz.net

www.focus.de

History

Grand Expectations, The United States 1945-74 (James T Patterson)

Homeward Bound (Revised Edition): American Families In The Cold War Era (Elaine Tyler May)

England Under The Tudors (G R Elton)

Tudor: The Family Story (Leanda de Lisle)

Mathematics

Fermat's Last Theorem (Simon Singh)

The Mathematical Experience (P J Davis & R Hersh)

The Penguin Dictionary Of Curious And Interesting Numbers (David Wells)

Mathematics: A Very Short Introduction (Timothy Gowers)

Cambridge University Maths reading list: www.maths.cam.ac.uk/documents/reading-list.pdf

Music

Understanding Popular Music (David Ventura, Rhinegold)

Film Music In Focus (David Ventura, Rhinegold)

Romanticism In Focus (Lucien Jenkins, Rhinegold)

Modernism In Focus (Lucien Jenkins, Rhinegold)

Physical Education

Physiology Of Sport And Exercise (W Larry Kenney, Jack Wilmore, David Costill)

Foundations Of Sport And Exercise Psychology (Robert Weinberg, Daniel Gould)

The Sports Gene: Inside The Science Of Extraordinary Athletic Performance (David Epstein)

Sport, Culture And Society (Grant Jarvie)

Physics

Six Easy Pieces: Fundamentals Of Physics Explained (Richard Feynman)

The First Three Minutes (Stephen Weinberg)

Just Six Numbers (Martin Rees)

Politics

The Social Contract (John-Jacques Rousseau)

After Blair: David Cameron And The Conservative Tradition, (Kieron O'Hara)

Tony Blair: Prime Minister (John Rentoul)

WTF? (Robert Peston)

Product Design

AQA Design And Technology Product Design (Granger, Potts, Morrison, Sumpner)

Sketching: Drawing Techniques For Product Designers (Eissen, Steur)

The Design Of Everyday Things (D A Norman)

Psychology

The Lucifer Effect (Philip Zimbardo)

The Social Animal (Elliot Aronson, Joshua Aronson)

Opening Skinner's Box (Lauren Slater)

Rationality (Stuart Sutherland)

Welcome To Your Brain (Sandra Aamodt, Sam Wang)

Breakdown (Stuart Sutherland)

The Man Who Mistook His Wife For A Hat (Oliver Sacks)

I'm Eve (Chris Sizemore)

Predictably Irrational (Dan Ariely)

Psychology And Crime (Putwain and Sammons)

Plus a wider range of titles and sources if you are interested in reading beyond the specification:

The Curious Incident Of The Dog In The Night-time (Mark Haddon)

The Jigsaw Man (Paul Britton)

To Kill A Mockingbird (Harper Lee)

The Honest Truth About Dishonesty: How We Lie To Everyone (Especially Ourselves) (Dan Ariely)

Welcome To Your Brain (Sandra Aamodt & Sam Wang)

The Boy Who Couldn't Stop Washing (Judith Rapoport)

The Man Who Loved A Polar Bear & Other Psychotherapist's Tales (Robert Akeret)

Innocent Man (John Grisham)

The Serial Killers: A Study In The Psychology Of Violence (Colin Wilson And Donald Seaman)

One Flew Over The Cuckoo's Nest (Ken Kesey)

The Skeleton Cupboard (Tanya Byron)

Do No Harm (Henry Marsh)

The Other Side Of Silence (Linda Gask)

It's All In Your Head (Suzanne O'sullivan)

Dear Amy (Helen Callaghan)

Psychology films

A Beautiful Mind (2001) – useful for schizophrenia

Mockingbird Don't Sing (2001) – useful for privation

Amelie (2001) – schizotypal personality disorder

As Good As It Gets (1997) – OCD

The Breakfast Club (1985) – abnormality, conformity

Girl Interrupted (1999) – abnormality

The Quiet Room (1996) – attachment

Shutter Island (2010) – schizophrenia

Insomnia (2002) – schizophrenia

50 first dates (2004) – memory

Inside Out (2015) – memory

The Stanford Prison Experiment (2015) – Zimbardo's study

Experimenter (2015) – milgram

Making a Murderer (Netflix) 2015 – forensic

Amanda Knox (Netflix) 2017 – forensic

Mindhunter (Netflix) 2017 – forensic

Manhunt: Unabomber (Netflix) 2018 – forensic

Psychology websites

www.thebps.org

www.getrevising.co.uk

www.tutor2u.net/psychology

www.o2learn.co.uk

www.u2learn.com/gcse-psychology-links.html

www.aqa.org.uk/subjects/psychology/gcse/psychology-4180/past-papers-and-mark-schemes

www.simplypsychology.org/a-level-psychology.html

www.s-cool.co.uk/a-level/psychology

www.o2learn.co.uk/o2_video-channel.php?channel=25#channelTop

Religious Studies

The Pig That Wants To Be Eaten (Julian Baggini)

Think: A Compelling Intro To Philosophy (Simon Blackburn)

Ethics: A Very Short Introduction (Simon Blackburn)

The Thinker's Guide To God (Peter Vardy, Julie Arliss)

The Thinker's Guide To Evil (Peter Vardy, Julie Arliss)

Christian Theology (Alister McGrath)

The Puzzle Of God (Peter Vardy)

The Puzzle Of Ethics (Peter Vardy)

Theatre Studies

Love And Information (Caryl Churchill)

As You Like It (William Shakespeare)

Waiting For Godot (Samuel Beckett)

Two (Jim Cartwright)