



Hampton Court House

Curriculum Outline 2020/21 – Year 13 Mathematics (SJ & MAM)

Autumn 2020

Principal Text: *OCR Mathematics A for Year 2*

We will continue to study pure mathematics, reviewing the work done at the end of Year 12 and looking further at transforming and sketching graphs, trigonometry and trigonometric identities and further differentiation.

Students will study the coordinate geometry of parametric equations and how to differentiate these.

5 hours of homework per week is essential for success at this course.

Links with fundamental values

The study of mathematics enables students to think logically and analytically. They should as a result of following the course gain an understanding of the value of data and facts in the decision making process.

Social, moral, spiritual and cultural content
Students will look at data on a range of topical issues such as climate, road accidents, health statistics and government spending. They will have a lot of exposure to real data and will be encouraged to think about and discuss their thoughts on these.

Spring 2021

Principal Text: *OCR Mathematics A for Year 2*

Students will focus a lot on calculus this term, developing their knowledge of the integration of more complex functions and also some basic differential equations.

Alongside this, students will also study the methods for analysing and representing large data-sets in the statistics module. They will study discrete data analysis and also the continuous normal distribution, as well as basic probability and linear regression.

In mechanics students will continue their study of kinematics and Newtons' laws, extending their understanding to motion in 2- and 3- dimensions. They will also look at projectiles and a mathematical description of friction.

Teamwork and respect is encouraged as a routine during class.

Opportunities to independently extend learning
You tube - Hegarty Maths
Physicsandmathstutor.com
Exam solutions website

Summer 2021

Principal Text: *OCR Examinations and past papers*

This term will be spent going through exam practice using the past papers from the OCR website.

time-essay writing skills.

In this term we complete a review of all the texts while perfecting

Principal Text: comprehensive review and final examination practices

Summer 2021

also the best way to structure essays about poetry.

reviewing not only our command of advanced poetic techniques but

anthology and focus on addressing the unseen poetry question.

In this term we complete our study of the contemporary poetry

Principal Text: Unseen poetry

Spring 2021

of Paper 3.

on to the anthology of contemporary poetry needed for the first part
finishing *The Duchess of Malfi* and reviewing *King Lear*, before moving

This term we complete our preparation for the drama paper.

Principal Text: Poems of the Decade

Autumn 2020

discussed.

honesty, and so on are continually raised and
moral issues of fairness, justice, kindness,

It is in the nature of studying literature that
social, moral, spiritual and cultural content

presence.

the Rule of Law and the consequences of its

The drama texts in particular draw attention to
the texts we cover in the A level curriculum.

and mutual understanding are major themes of
justice, politics, fair and functioning societies,

links with fundamental values

Curriculum Outline 2020\21 – Year 13 English (E2)



timed-essay writing skills.

In this term we complete a review of all the texts while perfecting our Victorian Verse.

Dalloway, Wuthering Heights, Poems of the Decade, The New Oxford Book

Principal Text: Set text: King Lear, The Duchess of Malfi, Mrs

Summer 2021

How to include literary critics, views in our responses.

Work extensively on examination technique, essay construction and

In this term we will revise Section A of Paper 1 (King Lear) and

Principal Text: King Lear

Spring 2021

comparison.

Section B), considering meaning, poetic craft, context and
In class, we will address the Victorian Poetry module (Paper 3,

Level syllabus). This will largely be done in homework time.

This term, we will complete the coursework (component of the A

Principal Text: The New Oxford Book of Victorian Verse (ed. Rickes)

Autumn 2020

examination papers.

In order to allow a full focus on the three

Coursework must be completed by Christmas

Opportunities to independently extend learning

discussed.

honesty, and so on are continually raised and

moral issues of fairness, justice, kindness,

It is in the nature of studying literature that
social, moral, spiritual and cultural content

presence.

the Rule of Law and the consequences of it.

The drama texts in particular draw attention to

the texts we cover in the A level curriculum.

and mutual understanding are major themes of

justice, politics, fair and functioning societies,

links with fundamental values

conditions.

access the very highest grades under timed

support to be put in place to allow students to

Christmas, allowing for intensive revision and

curriculum content is largely covered by

examination timing and strategy. The

we also develop skills of essay technique and

appreciation for and analysis of literary texts,

Throughout Year 13, as we grow in our

Curriculum Outline 2020\21 – Year 13 English (BWA)



priorities of the schedule of the exams.
 All skills targeted on a timely basis according to the needs and
 Revision of Year 12 contents.
 General revision plus work on translation and essay writing.
 completed.
 The content and skills aspects of the A-level course are now
 Principal Text: AQA A level FRENCH
Summer 2021

Unit 12 Immigration and integration
 Unit 11 Protest and strikes -the power of trade unions
 Unit 10 Young people and the right to vote
 Aspects of political life in the French-speaking world
 Theme 4 :
 Unit 9: How we treat criminals (Law system, prison etc)
 Current problems within the French speaking society
 Theme 3:
 Principal Text: AQA A level FRENCH
Spring 2021

Unit 8 Social exclusion in France
 Unit 7: Positive aspects of a diverse society
 Current problems within the French speaking society
 Theme 3:
 and the Second World War.
 Study of the book Un sac de billes by Joseph Joffo. Links to history
 Principal Text: AQA A level FRENCH
Autumn 2020

opinions even further.
 regarding specific example to open up pupils,
 These units will lead to debates and discussions
 ethnicities/backgrounds to national culture.
 appreciate the contribution of different
 and help them
 outlook, foster understanding and tolerance,
 current issues) should broaden the pupils,
 evolution of its society (here, such as discussing
 Aspects of Francophone culture and the
 social, moral, spiritual and cultural content
 social, moral, spiritual and cultural content
 beliefs.
 respect, tolerance of those of different faiths and
 individual liberty, mutual
 French political system, the rule of law,
 focus on democracy with the study of the
 The units and the movie studied this year will
 links with fundamental values

Curriculum Outline 2020\21 – Year 13 FRENCH (ML & CGC)



done in lessons.
 examination board. This material will form the basis of the work
 in preparation for the exam pre-release material is issued by the
 Unit 4 Geographical Research.
 running alongside this work.
 done in lessons. Revision of the Competed Planet themes will be
 examination board. This material will form the basis of the work
 in preparation for the exam pre-release material is issued by the
 Unit 3 Competed Planet
 Principal Text: Geography for Edexcel (2017) Oxford
Summer 2021

investigated.
 This term Life on the Margins: the Food Supply Problem will be
 research, evidence and produce a report on key geographical issues.
 in preparation for university study the unit 4 challenges students to
 Unit 4 Geographical Research.
 and their spheres of influence.
 impact on the international economic and environmental systems
 superpowers and how they change over time. We will look at their
 The spring term will see us turn our study towards the world's
 Unit 3 Superpowers
 Principal Text: Geography for Edexcel (2017) Oxford
Spring 2021

This term Economic Activity and Hazards will be investigated.
 research, evidence and produce a report on key geographical issues.
 in preparation for university study the unit 4 challenges students to
 Unit 4 Geographical Research.
 and organising our world.
 formation and the role of international organisations in managing
 international migration alongside an analysis of nation state
 The term we will examine the impact of globalisation on
 Unit 2 Migration, Identity of Sovereignty
 Principal Text: Geography for Edexcel (2017) Oxford
Autumn 2020

within local and wider communities.
 values. It promotes tolerance and partnership,
 encourages positive relationships and shared
 society better. Appreciating diversity
 Geography also helps pupils to understand
 social, moral, spiritual and cultural context

backgrounds.
 and to appreciate the diversity of people,
 in which communities and societies are mixed.
 It helps them to understand the complex ways
 contexts and processes that make shared them.
 explore how places have been changed by the
 Geography education encourages pupils to
 links with fundamental values

independent and self directed.
 opportunities. Students are expected to be
 wide range of sources and learning
 of the course in parallel and will be using a
 The Year 13 will be studying the A2 elements

Curriculum Outline 2020\21 – Year 13 Geography (LCC)



Revision and exam practice

Summer 2021

The collapse of the Soviet Union in 1991
Gorbachev and the ending of the Cold War
Solidarity in Poland
Reagan and Thatcher
Soviet invasion of Afghanistan

Unit 5:

Government under William and Mary

The Glorious Revolution

The accession of James II

The Exclusion Crisis

The Clarendon Codes

Political divisions and conflicts under Charles II

Unit 1:

Spring 2021

Sino - Soviet relations

The War in Vietnam

Unit 2:

Religious divisions and conflicts

Charles II and the restoration of the monarchy

The Protectorates

Cromwell and his aims

Consolidation of the Republic

Unit 1:

Manhattan: Oxford Press 2012

AQA History – The Cold War c1942-1991. John Aldred and Alexis

Education, 2012.

monarchy 1603-1702. Angela Anderson and Dale Scarborough, Hodder

Principal Text: AQA A-level History, Stuart Britain and the Crisis of

Autumn 2020

the Interregnum period

through understanding of religious diversity in
Respect for individual identity and liberty
social, moral, spiritual and cultural content

Rights:

Revolution and establishment of a Bill of
identity in the context of the Glorious
Discussion on individual liberty and national

Levelers:

and influence of political radicals such as the
the Republican project. Considering the views
Discussions on the rule of law in the context of
links with fundamental values

Movement:

on the African-American Civil Rights
Unit 3 is a coursework module which focuses

1942-91.

Unit 2 is a depth study looking at the Cold War

Britain and the crisis of monarchy 1603-1702.

Unit 1 is a breadth study looking at Stuart

will be completed in the first half of year 13.

taught simultaneously across 13, while unit 3

separate units. Components 1 and 2 will be

The A-level History course is divided into three

Curriculum Outline 2020\21 – Year 13 History (LWB)



Assessment – Final A Level exams

Revision oral exam
Themes 1, 2, 3 and 4

Themes – Revision term
Principal Text: *Womans*
Summer 2021

30% of the qualification
Speaking (22P0\03)
Paper 3

30% of the qualification
film) and translation (22P0\05)
Written response to works (literary text and
Paper 5

40% of the qualification
Listening, reading and translation (22P0\01)
Paper 1

listening, writing and translation.

Assessment – internal assessment: reading and responding,

Investigación de un tema a elegir - preparation examen oral

Festivales y tradiciones - festivals, costumes y tradiciones.
escritos y en internet; el impacto en la sociedad y en la política.

Los medios de comunicación - televisión y películas; medios
cultura contemporánea.

La música - cambios y tendencias; el impacto de la música en la

Temas – La cultura política y artística hispanohablante

Principal Text: *España contemporánea*, Cristina Lopez Moreno, 2014.
Spring 2021

Year 13:

Candidates will take three papers at the end of
assessment at the end of the each term.
Students will carry out an end of term internal

literary text they have chosen to work on
of the Spanish or Latin American film and
Spain. Students will have a deeper knowledge
the history, politics, economy and culture of
vocably and have a grounded knowledge of
write well structured essays with sophisticated
to be fluent speakers of Spanish, be able to
At the end of the course, students are expected

complexity.

listening to passages of different length and
exercises, producing pieces of writing and
summarising texts, comparing grammar
reading advance vocabulary, reading and
to follow a weekly routine that includes
independent work per week. Students will have
The course requires you to five hours of

opportunities in many areas of employment.
not to mention that will prepare you for future
to the Spanish art, music, film and literature,
better your own language, you will gain access
Spanish in this way will help you to understand
details and a methodic approach. Learning
The course requires dedication, attention to

(Advanced GCSE in Spanish 22P0).

will follow the examination board Edexcel
The A Level Spanish is a two years course. We

listening, writing and translation.

Assessment – internal assessment: reading and responding,

language y espacio y escenografía.

estudio del argumento, estructuras, temas, simbolismo, personajes,
adventurarse en la obra maestra del dramaturgo español a través del
Análisis literario de La Casa de Bernarda Alba. Los estudiantes se

Temas – García Lorca y La Casa de Bernarda Alba

University Press

Principal Text: *La Casa de Bernarda Alba*, Hispanic Texts, Manchester
Autumn 2020

Curriculum Outline 2020\21 – Year 13 Spanish (IAC)



They will complete their project documentation for moderation.

Students will revise all units.

Summer 2021

project testing and evaluation.

testing. The bulk of the term will be devoted to completing their

The students will work on their project design, implementation and

accessed in a database.

management concepts. They will learn how data is stored and

The students will learn about exchanging data using database

to-peer protocols.

They will investigate search engines and client server as well as peer-

to-peer they face. They will look at HTML, CSS, and JavaScript.

They will look at networks such as the internet and the security

Spring 2021

questions and learn exam technique.

They will practise past exam papers to understand the style of exam

like graph traversal, queues.

and searching data. The students will learn more advanced algorithms

They will focus on different algorithms which are used for sorting

programmers in storing and accessing data in a computer program.

queues, hash tables, graphs, binary trees which can help

This term, students will look at data structures - array, lists, stacks,

Autumn 2020

to benefit themselves.

Seminars and activities which they could book

The students will be informed about online

Opportunities to independently extend learning

in accordance with fundamental British values.

The students will learn how to use social media

Social, moral, spiritual and cultural content

accordance with fundamental British values.

themselves online, use of social media in

The students will learn how to conduct

Links with fundamental values

and the student is provided feedback.

tasks and quality of homework will be assessed

through unit tests and mock exams. The class

The students will be assessed on all units

Curriculum Outline 2020\21 – Year 13 ICT & Computing (NVA)



examinations.

practice and revision in preparation for the final A Level

With all of the curriculum now taught, this term will be solely exam

Principal Text: AQA A-level Year 2 Biology Student Book

Summer 2021

have been completed.

period of lockdown and to ensure that all the core practical activities

There will be some time in this term to recap topics taught over the

technologies.

selection, investigating populations, gene regulation and gene

The students finish the course by learning about variation and

plant and animal populations.

This term the students will look at ecology, including how to sample

Principal Text: AQA A-level Year 2 Biology Student Book

Spring 2021

practicals designed test key competencies in scientific investigation.

Throughout the year, students will complete a number of assessed

links, experiments and cancer.

They then move on to genetics with a focus on dihybrid crosses, sex

biological systems.

mitochondrial and prokaryotic cycle and efficiency of energy transfers in

photosynthesis. They will study biological cycles such as the

This term, the students will learn the complex reactions involved in

Principal Text: AQA A-level Year 2 Biology Student Book

Autumn 2020

understanding.

Regular consolidation of notes to check

experience a wider variety of question styles.

Revisiting past papers from other syllabuses to

such as Biological Science Review.

Reading around the course using magazines

‘Evidences’;

undergraduate textbooks ‘The Cell’ and

Reading more advanced material such as

Opportunities to independently extend learning

implications.

and gene therapy have important social

communicable diseases, scientific discoveries

interesting moral questions. The topics of

spirituality. Gene regulation raises some

about the debate between science and

Genetics and evolution help teach students

social, moral, spiritual and cultural content

democracy.

and scientific debates teach students about

right links to the rule of law. Both public health

respect. Gene regulation and organ transplants

about democracy, individual liberty and mutual

The topic of gene technology links to ideas

links with fundamental values

their final examinations.

as students will need to write an essay as part of

There will also be lots of practice essay writing

through practice of past AQA A-level papers.

Emphasis will be placed on exam technique,

and strengthen their understanding.

each other on topics taught in lesson to deepen

Students will also give short presentations to

examinations.

by topic tests and more formal mock

books’, alongside lesson-to-lesson ‘AT’, topic

and homework exercises such as question

through a mixture of short quizzes in lessons

Assessment of students’ progress will be

Curriculum Outline 2020\21 – Year 13 Biology (HGL, AHH)



How to approach exam-style questions:
 ensure they have a solid understanding of chemistry but also know
 level examinations. They will work closely with their teachers to
 students spend the summer term revising and preparing for the A2
 Principal Text: Collins AQA A level Student Book 2
Summer 2021

learns to build more complex chemical structures:
 pathways, leading to combine reactions covered over both A-level
 proteins. To finish the demands of course, students navigate reaction
 studying the chemical composition of DNA, amino acids and
 organic substances. Students are introduced to biochemically by
 skills as pupils are taught the variety of techniques used to identify
 exploring transition metals. An emphasis is also put on analytical
 During the Spring Term, pupils study colour and catalysis whilst
 Principal Text: Collins AQA A level Student Book 2
Spring 2021

develop analytical skills working with data. In their practical work,
 mathematically challenging topics in the A level and students will
 equilibria, pH, and buffer solutions. These are some of the more
 in physical chemistry we start by reviewing reaction rates, dynamic
 more dangerous substances safely.
 important pharmaceutical intermediates and discussing handling
 Students will develop practical skills synthesising and purifying
 benzene and then develop understanding of amines and polymers.
 In organic chemistry we will begin by looking at the chemistry of
 remote teaching.
 required practical work that accompanies the theory we covered via
 chemistry in the Autumn Term. We will begin the term by doing the
 The A2 chemistry course is split between organic and physical
 Principal Text: Collins AQA A level Student Book 2
Autumn 2020

from various cultures, genders, and sexualities
 - The importance of contributions of scientists
 based decision making is vital
 - The Scientific Method and how evidence-
 ways to mitigate these dangers
 environment posed by chemical industry and
 - An understanding of the dangers to the
 effects thereof
 - Development of medicines and the societal
 and work
 - Use of transition metal dyes in painting and
 Links to M2C include
 societal, moral, spiritual and cultural content

importance of these values.
 chemicals on the environment highlight the
 and pharmaceutical industries, and the effect of
 More specifically, topics involving the chemical
 a strongly individualised classroom ethos.
 law, liberty, and respect are promoted through
 The fundamental values of democracy, rule of
 Links with fundamental values

Practicals that are formally assessed.
 Year course, there are twelve required
 work safely and methodically. During the two-
 should be able to write full investigations and
 to have mastered their experimental skills. They
 By the end of the course, students are expected

Year course.
 knowledge and understanding of the full two
 examination papers, which question their
 Students completing the course sit three
 Year 13 (AS).
 terminal exams at the end of Year 12 (A2) and
 The A level course is a linear structure with
 Assessment:

Curriculum Outline 2020\21 – Year 13 Chemistry (L1M)



Level exams:

The Summer Term will be dedicated to revision for the upcoming A-

Principal Text: Physics AQA A-level Year 2

Summer 2021

and cosmology.

detail at the workings of telescopes, how stellar objects are classified

Students will also begin the astrophysics module, looking in some

electricity.

considered magnetic induction and how it can be used to generate

The Spring Term will see students continue their study of fields, now

Principal Text: Physics AQA A-level Year 2

Spring 2021

nucleus:

instability, exponential decay, and the extraction of energy from the

introduced to the models and mathematics used to explain nuclear

At the same time they will be studying nuclear physics, being

and what effect they have on circuits.

gravitational and electric fields, how capacitors work, store energy,

Students will then study fields and their effects, learning about

we complete some of the required practicals:

students will be able to start with some revision of previous topics as

Having made very good progress towards the end of last year,

Principal Text: Physics AQA A-level Year 2

Autumn 2020

to the advancement of science:

world who have made significant contributions

contributions from scientists from around the

We will acknowledge and recognise the

regard to safe practice.

develop investigative abilities, asking que

and question the world around them. They will

scientific phenomena so they can appreciate

stimulated by demonstrating interesting

and limitations. The children's curiosity will be

social and cultural activity, which has strengths

We will provide an awareness of science as a

social, moral, spiritual and cultural content

listen to the views of others.

encouraged to reflect on their own work and

and tolerance of others. They will be

order to promote resilience and mutual respect

They will work on their own and in teams in

sense of the world around them.

over opinion in order to understand and make

Scientific Method which embraces evidence

The students have more practice of the

links with fundamental values

teacher.

practical competences will be assessed by the

practical activities through which various

There will also be a number of required

AQA past paper resources:

end of topic tests with questions from a bank of

through a mixture of homework exercises and

Assessment of students' progress will be

Curriculum Outline 2020\21 – Year 13 Physics (JWM)



quantitative data.
options available when analyzing and interpreting, quantitative and
the use of inferential statistics. They will explore the different
Students will build upon their year 1 research methods to examine

Research Methods:

Principal Text: AQA Psychology Year 2

Summer 2021

behaviours and approaches fall in the different debates.
of the course to identify the key issues and justify where different
Students will use their Psychological knowledge spanning the whole

addiction

of the approaches to explain how different perspectives explain each
on smoking and gambling. They will use their year one knowledge
Students will explore the Psychology of addiction with specific focus

Principal Text: AQA Psychology Year 2

Spring 2021

relationships.
are explored to give students a holistic understanding of modern day
the topic of relationships. Various theories of romantic relationships
The role of self disclosure and physical attractiveness are explored in

role of daily hassles, the workplace and life events.

Students also explore the different sources of stress including the

controlling our biological rhythms.

the role of endogenous pacemakers and exogenous zeitgebers in
different methods that have been used to study the brain and study
spiritually to recover functionally following injury. They will look at the
Students will explore the plasticity of the brain and its amazing

Principal Text: AQA Psychology Year 2

Autumn 2020

Research methods- social and cultural
Relationships- social and cultural
Issues and debates- social, moral, cultural
Addiction-Moral and social
social, moral, spiritual and cultural content

Relationships- mutual respect
Issues and debates-individual liberty
Addiction-democracy
stress-mutual respect
Links with fundamental values

into evaluating various research findings.
challenge their personal experience and thoughts
relationships and addiction will allow them to
'biopsychology'. The topics of stress,
human behaviour in the topic of
of the human body and how they can explain
Psychology by studying the internal workings
Students will start the course of A-level

examinations.

All, homework tasks, quizzes and formal
will be assessed continuously through the use of
explore a number of interesting topics which
evaluate further topics in the A level. They will
Psychology knowledge to understand and
Students will build upon their first year

Curriculum Outline 2020\21 – Year 13 Psychology (IB2)



think broadly around the core topics described within an environment which encourages students to economic issues. There will be a strong focus on examination and quantitative evidence to support informed judgements on assessment standards. Students will be challenged to use qualitative and practise the application and analysis skills they need to meet the challenge term. Students will revise core knowledge/understanding. This term will build on the themes explored in the Autumn and

Summer 2021

development:
Trade and Globalisation looking more at issues of international within this. Macroeconomics will continue to study International of the Firm analysing business behaviour and the role of government in Microeconomics Year 13 will continue their study of the Theory Economics and International Trade.
Core topics: Business Behaviour and the Labour Market and Global edition
Principal Text: Anderson, A. (2010), Edexcel A2\A Level Economics, 8th edition

Spring 2021

organisations, trade and relationships that make up our world. Trade and Globalisation in order to gain insights into the be supported through the Macroeconomic study of International quantitative theories needed to analyse business behaviour. This will practices of the Theory of the Firm including the qualitative and From a Microeconomic perspective Year 13 will examine the Economics and International Trade.
Core topics: Business Behaviour and the Labour Market and Global edition
Principal Text: Anderson, A. (2010), Edexcel A2\A Level Economics, 8th edition

Autumn 2020

of the principles of democracy. Issues and this ensures our students are aware asked their opinions about important school an active student voice with students being the democratic process and the law. We have students are encouraged to respect democracy, social, moral, spiritual and cultural content

different stakeholder analysis the study of migration, globalisation and institutions. This ranges from great speakers to broad knowledge and respect for public Economics supports our students to acquire a links with fundamental values

Times' at <http://www.economicshk.com/blog>
David Smith, Economics Editor of the Sunday
Economics references at <http://www.infor3u.net/economics>
Ad hoc press articles (prospectors).
UK news/business/economy
BBC News website (<http://www.bbc.co.uk/news/business/economy>)
The Economist
The Royal Economic Society
from a variety of sources. Examples include:
Students will research relevant information
Contextual material and research:

Economics, 8th edition
Harvey, J. and Lowrey, E. (2001) Modern Economics, 6th edition
Anderson, A (2012) Edexcel A2\A Level Core material and understanding:
Resources
Theme 4: A Global Perspective market
Theme 3: Business behaviour and the labour board:
(of four) themes prescribed by the examination
During Year 13, students will study the last two

Curriculum Outline 2020\21 – Year 13 Economics (KAM)

