



Senior High Year 10 & 11 Curriculum Handbook

FOR THE **NATIONS**

*"Pojď sem, synu, uč se moudrým býti."
"Come here, son, and learn to be wise."
J. A. Komenský (1592 - 1670)*

Contents

Page	Subject Area
2-3	<u>Our Curricular Aim</u>
4	<u>Art and Design</u>
5	<u>Business Studies</u>
6	<u>Computer Science</u>
7	<u>Coordinated Sciences</u>
8	<u>Czech - First Language</u>
9	<u>Czech as a Foreign Language</u>
10	<u>Drama</u>
11	<u>Economics</u>
12	<u>English Language and Literature</u>
13	<u>English as a Second Language</u>
14	<u>French</u>
15	<u>Geography</u>
16	<u>German</u>
17	<u>History</u>
18	<u>Mathematics</u>
19	<u>Music</u>
20	<u>Music Technology</u>
21	<u>Physical Education</u>
22	<u>Physical Education (IGCSE)</u>
23	<u>Psychology</u>
24	<u>Religious Studies</u>
25	<u>Spanish</u>

Our Curriculum Aim

In keeping with the Aims and Objectives of Riverside School:

- *provide high quality education in the English language;*
- *prepare students for higher education, the world of work and to become active citizens;*
- *provide a broad and balanced curriculum to nurture and strengthen each student's intellectual, spiritual, social and physical growth and development and lead to achievement for all students;*
- *provide students with internal and external accreditation, through internal assessment and external examinations.*

Introduction to the Senior High School Curriculum

IGCSE Programme (Years 10 and 11)

During Years 10 and 11 students study International General Certificate of Secondary Education (IGCSE) external examination courses governed by the Cambridge Assessment International Education and Edexcel Examination Boards. IGCSEs are the world's most popular international qualifications for 14 to 16 year-olds. They are a gateway to higher level courses, including the International Baccalaureate (IB) Diploma Programme.

IGCSE courses take two years to complete with external examinations written in May/June of Year 11. Results are issued in August.

IB Diploma Programme (Years 12 and 13)

In Years 12 and 13 students have the opportunity to study the International Baccalaureate (IB) Diploma Programme. The IB Diploma Programme is a highly respected and academically challenging programme that gives students a unique opportunity to graduate with an international diploma that is recognized by the best universities worldwide.

The IB Diploma Programme takes two years to complete with external examinations written in May of Year 13. Results are issued in July.

Our Curriculum Aim

High School Diploma (Years 10 through 13)

The High School Diploma is a four year programme of accreditation towards higher education based on the US education model. Students are awarded credits for each subject they successfully complete and their end of year grades are converted to a Grade Point Average (GPA). Student progress and attainment is internally assessed and students who achieve the required number of credits (23) are awarded a High School Diploma at the end of Year 13. The Diploma is accredited by the New England Association of Schools and Colleges (NEASC) and is recognised by a number of countries and is a college requirement in North America.

Credits and a High School Diploma are awarded to all successful students, irrespective of their educational destination.

PSAT, SAT & ACT Tests

These US Tests may be taken in the final three years of High School. The Diploma, combined with the student's GPA and SAT or ACT score will determine college entrance in the US and other international universities.

Note: The results of external examinations (including SAT, ACT, IGCSE, and IB) do not influence the internal marks, credits or High School Diploma. Both are separate. The Diploma is awarded when the student leaves the school at the end of Year 13.

Subject Syllabi

Subject: IGCSE Art & Design

Examination Board and Syllabus Code: Cambridge International (0400)

Course Description:

The Visual Arts enjoy a high profile at the Senior High and are suited to students who are creative, enthusiastic and imaginative, who enjoy exploring different materials, and who wish to learn how to produce quality work. At Riverside, you will have the exciting opportunity to work in 2D, 3D and digital art forms, and also see your work presented in the Arts Centre Gallery. Through a range of practical activities, you will learn to respond in a personal way to different themes and ideas, with increasing freedom to develop your own individual projects as you progress through the course. We welcome all abilities, and there is also a busy schedule of extra curricular Art & Design opportunities to support candidates who wish to broaden their skills further.

IGCSE Art & Design encourages students to learn a range of new techniques, and follow their own personal projects in Fine Art. During this process, you are encouraged to artistically experiment and take risks. By experimenting with a range of media and materials, you will see yourself improve, and develop confidence in communicating your personal ideas effectively. You will continue to develop your critical thinking in response to a range of artists and designers, and become increasingly confident in presenting and critiquing your own work, and the work of others.

Topics Include:

IGCSE Art & Design is made up of coursework and an externally set assignment. You will be assessed against four criteria in each section. The 4 Assessment Objectives are:

- AO1 Record - Record ideas, observations and insights relevant to intentions as work progresses
- AO2 Explore - Explore and select appropriate resources, media, materials, techniques and processes
- AO3 Develop - Develop ideas through investigation, demonstrating critical understanding
- AO4 Present - Present a personal and coherent response that realises intentions and demonstrates understanding of visual language.

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Internal Coursework Unit 50%
- Internal Final Exam Unit 50%

External (IGCSE) Assessment:

- Art & Design Internal Coursework (50%): A personal portfolio of Art and Design selected from the projects you will complete in Years 10 and 11. Students produce 4 x (A2) preparatory sheets and then produce a large scale final piece.
- Final External Exam (50%): You will be given a broad theme with a range of starting points. From this you will make a personal response using materials and processes of your choice as your final exam in Year 11. Students produce 2 x (A2) preparatory sheets, and sit an 8 hour practical exam.

Subject: IGCSE Business Studies

Examination Board and Syllabus Code: Cambridge International (0450)

Course Description:

IGCSE Business Studies provides students with a basic understanding of how business works. Students will study how business is organized and financed. They will also learn about efficiency in production and creativity in marketing. Students also study how to be effective managers of people. Ultimately students will become skilled in making business decisions and will on successful completion of the course achieve a foundational understanding that will enable them to continue their studies at IB level or higher.

Topics Include:

Business Studies IGCSE curriculum is divided into five themes as follows:

- Business and the environment in which it operates
- Business structure, organisation and control
- People in business
- Business activity to achieve objectives
- Regulating and controlling business activity

These themes are taught through the following topics;

- Human Resources
- Marketing
- Finance
- Production
- Government and Law

Internal Assessment:

Riverside grades reported at the end of the Autumn and Spring Terms are based approximately on:

- | | |
|-----------------------|-----|
| ● Assignments | 50% |
| ● Folder/Organization | 10% |
| ● Tests | 40% |

External (IGCSE) Assessment:

In January of Year 11 students will take a mock examination to gauge their preparedness for final examination in May/June of Year 11. Students who pass the mock examination will be entered for the following IGCSE examination paper(s):

- | | |
|--|-----|
| ● Paper One (1 ½ hours) – Short answer & data response questions | 50% |
| ● Paper Two (1 ½ hours) – Case study questions | 50% |

Textbooks/Resources:

- Cambridge IGCSE Business Studies By Karen Borrington and Peter Stimpson (fifth edition)

Subject: IGCSE Computer Science

Examination Board and Syllabus Code: Cambridge International (0478)

Course Description:

Computer Science offers students the opportunity to learn how to solve practical problems using a computer. The course covers a wide range of topics related to the creation of software and systems that can be used in a variety of different contexts from web-based applications to control systems.

Although the course is assessed by two written papers, the second examination is based on a practical programming project completed by the students in class beforehand.

Topics Include:

- Data Representation
- Communication and Internet Technologies
- Hardware and Software
- Security
- Ethics
- Algorithm Design and Problem Solving
- Programming
- Databases

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Assignments 25%
- Projects 40%
- Bookwork 10%
- Tests 25%

External (IGCSE) Assessment:

In May of Year 11, the students will write the following IGCSE examination papers:

- Paper One: Theory 60%
- Paper Two: Problem-solving and Programming 40%

Textbooks/Resources:

We currently use the Cambridge IGCSE Computer Science Coursebook by *Lawrey and Scott* as our main textbook, alongside a range of digital resources including the Cambridge GCSE Computing MOOC.

Students are introduced to a variety of programming languages throughout the course, including Snap and Python.

Subject: IGCSE Coordinated Sciences

Examination Board and Syllabus Code: Cambridge International (0654)

Course Description:

The course aims to provide students with an understanding and knowledge of the principles and applications of biology, chemistry and physics. The co-ordinated approach emphasises that many of these principles and concepts are common to all science, and promotes scientific inquiry through practical and investigative work.

The course is a double award, equivalent to two IGCSEs. The following list shows the key topics covered within the course.

Topics Include:

Biology

- Characteristics of living organisms
- Cells
- Biological molecules
- Enzymes
- Plant nutrition
- Animal nutrition
- Transport
- Gas exchange and respiration
- Coordination and response
- Reproduction
- Inheritance
- Organisms and their environment
- Human influence on ecosystems

Chemistry

- The particulate nature of matter
- Experimental techniques
- Atoms, elements and compounds
- Stoichiometry
- Electricity and chemistry
- Energy changes in chemical reactions
- Chemical reactions
- Acids, bases and salts
- The periodic table
- Metals
- Air and water
- Sulfur
- Carbonates
- Organic chemistry

Physics

- Motion and forces
- Work, energy and power
- Thermal physics
- Properties of waves, including light and sound
- Electricity and magnetism
- Electric circuits
- Electromagnetic effects
- Atomic physics

Internal Assessment

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Tests and Quizzes
- Practicals
- Assignments
- Binder and Organization

External (IGCSE) Assessment

In May/June of Year 11 the students will write the following IGCSE examination papers:

- Paper 1 or 2 Core/Extended Multiple Choice 30%
- Paper 3 or 4 Core/Extended Short Answer 50%
- Paper 6 Alternative to Practical 20%

Subject: First Language Czech

Course Description:

The First Language Czech syllabus is designed for learners whose first language is Czech. In year 10 they will cover the content of the final year of compulsory Czech education, and take the final exams leading to vysvědčení. There will no longer be early morning Czech for Czech classes. The course develops learners' ability to communicate clearly, accurately and effectively. Great emphasis is put on the development of a positive attitude to the native language and Czech culture in a broader European context. Students learn how to employ a wide-ranging vocabulary, use correct grammar, spelling and punctuation, and develop a personal style and an awareness of the audience being addressed. In year 11 the syllabus is designed as a pre-IB Czech Literature programme focused on the development of the skills needed for success in IB Czech Literature in years 12 and 13. Students will learn how to read and write different texts and both immersive and critical reading skills will be developed. Learners are encouraged to read widely, both for their own enjoyment, edification and in order to develop an appreciation of a writer's choices. Students will study conventions of literary genres, chapters from history of Czech literature and strategies for writing analytical and critical literary commentaries.

Topics include:

- Slovní zásoba a význam slova
- Nauka o tvoření slov
- Tvarosloví
- Skladba
- Pravopis
- Zvuková stránka jazyka
- Obecné výklady o jazyce
- Slohotvorní činitele objektivní a subjektivní
- Slohové rozvrstvení jazykových prostředků
- Slohové postupy a útvary
- Všestranné jazykové rozbory
- Umělecký funkční styl
- Literární komentář
- Srovnávací literární esej
- Vybraná díla české literatury (povídky, novela, román, poezie)

Textbooks/Resources:

- Český jazyk 9 – učebnice a pracovní sešit pro základní školy a víceletá gymnázia (Fraus)
- Čítanka 9 (Fraus)
- Komunikace a sloh – učebnice českého jazyka pro střední školy (Fraus)
- Vybraná díla české literatury (poezie, povídky, novela, román)
- Učebnice Teorie literatury nakladatelství Fraus
- Žánrové a tematické antologie
- Minulá zadání zkoušky IGCSE (čtení s porozuměním a srovnávání textů)

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Assignments 60%
- Tests 40%

Final internal Assessment:

In May of Year 11 the students will write the following examination papers:

- Paper One – Literary commentary 50%
- Paper Two – Comparative essay 50%

Subject: Czech for Foreigners

Course Description:

The Czech as a Foreign Language syllabus is designed for learners for whom Czech is an additional language. The aim of the course is to develop their ability to communicate effectively in Czech. The course is based on the four key language skills: listening, reading, speaking and writing. As students progress, these skills are developed using the European Reference Framework for Foreign Languages. Depending on a student's knowledge at the start of the course and the progress that is made over the two-year course, they have the opportunity to take exams at A1, A2 or B1 levels. There is also the possibility that students can be entered for the Certified exam for Foreigners at Charles University.

Topics include:

- Leisure time
- The human body
- Travelling
- Cooking
- Shopping, Food and Drinks
- Chores
- Asking for directions
- Biography
- Personality
- The Weather
- Communications
- The clothes
- Relationships
- Czech history and geography
- Current events in Czech Republic

Internal Assessment:

Riverside grades are based on:

- Assignments 40%
- Projects 20%
- Tests 40%

Textbooks/Resources:

- Lída Holá: New Czech Step by Step – textbook & workbook
- Adamovičová: Basic Czech I and II
- Holá: Pohádky pro cizince
- Holá: Staré pověsti české pro cizince
- Lewis: Alenka v říši divů (pro cizince)
- Kořánová: Česká čítanka

Subject: IGCSE Drama

Examination Board and Syllabus Code: Cambridge International (0411)

Course Description:

Through practical and theoretical study, learners develop an understanding and enjoyment of drama, developing group and individual skills and studying ways to communicate ideas and feelings to an audience. They learn how to discover the performance possibilities of a text and analyse extended extracts from published plays. Learners devise dramatic material of their own using a variety of stimuli; short titles, poems, pictures, songs, historical events, stories. Learners also develop their performance skills, the demonstration of which will form part of the final assessment. Throughout the course, learners study a range of genres, practitioners and techniques.

Topics Include:

IGCSE Drama is made up of coursework and an external written examination. The objectives for the course are:

- Understanding repertoire: Candidates will be assessed on their ability to demonstrate knowledge and understanding of the possibilities of repertoire, and how to interpret and realise it in a live performance.
- Devising: Candidates will be assessed on their ability to devise dramatic material and reflect on its effectiveness.
- Acting skills: Candidates will be assessed on their acting skills and their ability to communicate effectively to an audience.

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Practical Contribution 60%
- Quizzes/Classwork 20%
- Formal Assessments 20%

External (IGCSE) Assessment:

- Coursework is filmed over Years 10 and 11 and submitted to Cambridge International to be moderated externally.
- Coursework (60%): Three filmed pieces: A monologue, a group devised performance and a group performance from a published script
- Written Exam (40%): An essay exam with questions regarding acting, directing, devising and interpreting; based on a pre-released script and an original devised piece (2 hours, 30 minutes)

Subject: IGCSE Economics

Examination Board and Syllabus Code: Cambridge International (0455)

Course Description:

The Cambridge International IGCSE Economics syllabus develops an understanding of economic terminology and principles and of basic economic theory. Learners study the economics of developed and developing nations and how these interrelate. They also learn to handle simple data and undertake economic analysis, evaluate information and discriminate between facts and value judgements in economic issues. The syllabus also encourages a better understanding of the world in which learners live, and helps them play an active part in the decision-making process, whether as consumers, producers or citizens of the local, national and international community.

Topics Include:

The Economics IGCSE curriculum is divided into eight themes as follows:

- The basic economic problem
- Allocation of resources
- The Individual as Producer, Consumer and Borrower
- The Private firm as Producer and Employer
- Role of Government
- Economic Indicators
- Developed and developing countries
- International aspects

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Homework and Classwork 50%
- Binder and Organisation 10%
- Formal Assessments 40%

External (IGCSE) Assessment:

In May of Year 11, students will write the following IGCSE examination papers:

- Paper One - multiple choice 30%
- Paper Two - structured questions 70%

Textbooks/Resources:

- Cambridge IGCSE Economics By Susan Grant
- Cambridge IGCSE Economics By Paul Hoang and Margaret Ducie

Subject: IGCSE English Language and Literature

Examination Board and Syllabus Code: Edexcel (4EAO)

Course Description:

The IGCSE English A syllabus is designed to foster student development in the areas of reading, writing, speaking, and listening; woven through these four key areas is a specific focus on critical thinking and analysis. Students are encouraged to read with insight and engagement and to write clearly and imaginatively. A variety of genres is introduced, including poetry, drama, fiction and non-fiction. In both reading and writing, great emphasis is given to examining the techniques a writer employs to accomplish a specific purpose or achieve a desired effect.

Topics include:

The core content of the course is as follows:

Edexcel Language Anthology: Section A

- Reading and responding to a variety of texts (non-fiction, poetry and prose)
- Writing to:
 - explore, imagine, entertain
 - argue, persuade, advise

English Literature

- Poetry
- Drama: Study and Coursework
 - *Romeo and Juliet* by William Shakespeare and *Kindertransport* by Diane Samuels
 - Two Formal Essays
- Prose Study: Novels—Students will study one of the following:
 - *Of Mice and Men* by John Steinbeck
 - *To Kill a Mockingbird* by Harper Lee

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Classwork and Homework 50%
- Formal Assessment 50%

External (IGCSE) Assessment:

In Year 11 the students will be assessed in the following way:

English Language:

- Paper One 60%
- Paper Two 40%

English Literature:

- Paper Three, Drama Coursework 40%
- Paper One 60%

Textbooks/Resources:

- Edexcel IGCSE English A & B Student Book (By Pam Taylor, Roger Addison, and David Foster)
- *Romeo and Juliet* by William Shakespeare
- *Kindertransport* by Diane Samuels
- *Of Mice and Men* by John Steinbeck
- *To Kill a Mockingbird* by Harper Lee

Subject: IGCSE English as a Second Language

Examination Board and Syllabus Code: Cambridge International (0510)

Course Description:

This course is designed for learners who have a beginning/intermediate knowledge of the English language who want to consolidate their understanding in order to progress in their academic or professional careers. The qualification reflects the widespread use of English in education, commerce, and entertainment. The aim is to achieve a level of practical communication ideal for everyday school use, which can also form the basis for a more in-depth study of English.

Topics and Skills Include:

- Teenage Leisure-Travel
- Education and Careers
- Space and Technology
- Shopping and Consumer Society
- Natural Disasters
- Sport and Fitness
- Animal and Plant Study
- Multicultural Festivals
- Grammar
- Vocabulary Development
- Academic Reading and Writing
- Study Strategies
- Oral Presentation Skills

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Classwork: 75%
 - Writing 25%
 - Reading Comprehension 25%
 - Speaking and Listening 25%
- Formal Assessments 25%

External (IGCSE) Assessment

Year 11 students will write the following IGCSE examination papers:

- Reading and Writing Exam
- Listening Exam
- Speaking Exam

Textbooks/Resources:

- Cambridge IGCSE English as a Second Language (Fifth Edition)
- Thematic, unit classwork
- Online texts and writing

Subject: IGCSE French

Examination Board and Syllabus Code: Cambridge International (0520)

Course Description:

The French syllabus offers students a thorough grounding in basic concepts of the French language. Students learn to apply a range of grammatical and idiomatic structures to five vocabulary topics, which relate to everyday language use. In the final assessment, there is an equal weighting between listening, speaking, reading and writing skills. Cambridge IGCSE French enables the learner to communicate competently about a range of topics and prepares students to follow the IB French B course at higher or standard level.

Topics include:

- Everyday activities
- Personal and social life
- The world around us
- The world of work
- The international world

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Assessments (end of each half-term) - 60%
- Tests (e.g. vocab and grammar tests) - 15%
- Classwork/Homework - 15%
- Attitude to Learning - 10%

External (IGCSE) Assessment:

In May of Year 11 students take 4 IGCSE examinations for French.

- Paper 1 - Listening Comprehension 25%
- Paper 2 - Reading Comprehension 25%
- Paper 3 - Speaking Exam 25%
- Paper 4 - Writing 25%

All candidates have access to all elements of the examination. However, for the examination to be appropriate to candidates across the full ability range, separate options are available for Core Curriculum candidates and Extended Curriculum candidates.

Textbooks/Resources:

- Cambridge IGCSE French Foreign Language by Yvette Grime and Jayn Witt
- Cambridge IGCSE French Grammar Workbook
- Websites for use in class but also independent work:
 - www.kahoot.com
 - www.languagesonline.org.uk
 - www.memrise.com
 - www.quizlet.com
 - www.tv5monde.com
 - www.classkick.com

Subject: IGCSE Geography

Examination Board and Syllabus Code: Cambridge International (0460)

Course Description:

Geography has a pivotal role in the creation of a balanced and rounded education for all. It takes students into social, economic and political thought and argument; into understanding the physical processes that help account for the environment and through these studies into moral and spiritual development. Geography is about people's lives, and therefore contains a future dimension. Geography has potential to help young people make sense of the world, themselves and their place within it. Thinking geographically enhances a student's capacity to integrate and synthesise knowledge and understanding from across the sciences, humanities, and the arts.

Topics include:

The core content of the course is as follows:

- Population and Settlement
 - Population, Migration, Settlements, Urbanisation
- The Natural Environment
 - Plate Tectonics, Rivers, Coasts, Weather, Climate and Ecosystems
- Economic Development
 - Development, Food Production, Agriculture, Industry, Energy, Tourism, Water
- Geographical and Field Work Investigation Skills focus

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Assignments and Essays 40%
- Assessments 50%
- Notes, Participation, and Organisation 10%

External (IGCSE) Assessment:

In May of Year 11 the students will write the following IGCSE examination papers:

- Paper One 45%
- Paper Two 27.5%
- Paper Four 27.5%

Textbooks/Resources:

- Complete Geography for Cambridge IGCSE by David Kelly and Muriel Fretwell
- IGCSE Geography by Garrett Nagle and Paul Guinness
- <http://www.thegeographeronline.net/>
- <https://www.geographyalltheway.com/>

Subject: IGCSE German

Examination Board and Syllabus Code: Cambridge International (0525)

Course Description:

The German syllabus offers students a thorough grounding in basic concepts of the German language; students learn to apply a range of grammatical and idiomatic structures to five vocabulary topics, which relate to everyday language use. In the final assessment, there is equal weighting between oral, aural, reading and writing skills. Cambridge IGCSE German enables the learner to communicate competently about a range of topics and prepares students to follow the IB German B course at higher or standard level.

Topics include:

- Everyday activities
- Personal and social life
- The world around us
- The world of work
- The international world

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Assessments (end of each half-term) 60%
- Tests (e.g. vocab and grammar tests) 15%
- Classwork and Homework 15%
- Attitude to Learning 10%

External (IGCSE) Assessment:

In May of Year 11 students take 4 IGCSE examinations for German.

- Listening 25%
- Reading 25%
- Speaking 25%
- Writing 25%

Textbooks/Resources:

- *Cambridge IGCSE German Foreign Language Textbook*
- *Cambridge IGCSE German Foreign Language Workbook*, by Helen Kent, Marian Jones
- Websites for use in class but also independent work:
 - www.linguascope.com
 - www.languagesonline.org.uk
 - www.memrise.com
 - www.quizlet.com

Subject: IGCSE History

Examination Board and Syllabus Code: Cambridge International (0470)

Course Description:

The History syllabus offers students the opportunity to study some of the major international issues of the 20th century, as well as looking in greater depth at the history of Soviet Russia. The emphasis of the course is for students to acquire historical knowledge as well as the skill set required to analyse historical evidence. Students will develop an understanding of key historical concepts such as cause and consequence, change and continuity and similarity and difference. Students will learn to use these concepts to help them formulate their own line of argument. Cambridge IGCSE History will stimulate any learner already interested in the past, and will provide a basis for further study, encouraging a lifelong interest in the subject.

Topics include:

The Core content of the course is as follows:

- Were the peace treaties of 1919-23 fair?
- To what extent was the League of Nations a success?
- Why had international peace collapsed by 1939?
- Who was to blame for the Cold War?
- How effectively did the USA contain the spread of Communism?
- How secure was the USSR's control over Eastern Europe, 1949-c. 1989?
- Why did events in the Gulf matter, c. 1970-2000?

The depth study we will cover is:

- Russia, 1905-41

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Assignments 40%
- Assessments 50%
- Notes, Participation and Organisation 10%

External (IGCSE) Assessment:

In May of Year 11 the students will write the following IGCSE examination papers:

- Paper One (2 hours - core syllabus including 3 mini essays) 40%
- Paper Two (2 hours - source analysis) 33%
- Paper Three (1 hour - one essay on Russia, 1905-1941) 27%

Textbooks/Resources:

- 20th Century History for Cambridge IGCSE by Cantrell
- Russia and the USSR Empire of Revolution by MacDonald

Subject: IGCSE Mathematics

Examination Board and Syllabus Code: Cambridge International (0607)

Course Description:

International Mathematics is designed to support the teaching of the IB in years 12 and 13, providing a solid foundation of mathematical knowledge as well as modelling and investigative skills. The IGCSE is a broad course containing elements of Number, Shape and Space, Algebra, and Data Handling, but taught with an emphasis on the interconnectedness of the material. During the two year course students will also learn to use a graphic display calculator.

Topics include:

Number:

- Surds
- Logarithms
- Simple and Compound Interest

Functions:

- Composite and inverse functions
- Linear
- Quadratic and Cubic
- Reciprocal
- Trigonometric
- Absolute value
- Exponential and logarithmic functions
- Transformations of functions

Mensuration:

- Perimeter and Area
- Surface Area
- Volume of shapes

Internal Assessment:

Riverside grades are based on:

- | | |
|---------------------------|-----|
| • Assignments | 40% |
| • Formative/Participation | 10% |
| • Binder | 10% |
| • Tests | 40% |

External (IGCSE) Assessment:

In April/May of Year 11 the students will write 3 IGCSE examination papers for mathematics.

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|---|-----|
| • Paper One (non-calculator) | 20% |
| • Paper Two (calculator) | 60% |
| • Paper Three (investigation and modelling) | 20% |

Textbooks/Resources:

- Haese and Harris – IGCSE International Mathematics Extended or Core
- All students require a Graphing Calculator (e.g. Texas Instruments TI84+ or the TI84+CE)

Transformations and Vectors

- Translations
- Reflections
- Rotations
- Enlargements
- Vectors

Geometry and Trigonometry:

- Similar Shapes
- Pythagoras Theorem
- Circle Theorems
- Right-angled and non-right angled

Probability:

- Relative Frequency
- Combined events
- Tree Diagrams with and without replacement

Algebra:

- Simultaneous Equations
- Quadratic Equations
- Sequences
- Proportionality and Variation

Coordinate Geometry:

- Equations of straight lines
- Parallel and perpendicular lines
- Sets and Venn Diagrams:
- Problem solving with 3 sets

Statistics:

- Discrete and Continuous Data
- Cumulative Frequency
- Correlation and Linear Regression

Subject: IGCSE Music

Examination Board and Syllabus Code: Cambridge International (0410)

Course Description:

When studying the Cambridge IGCSE Music syllabus, learners listen to, perform and compose music, encouraging aesthetic and emotional development, self-discipline and, importantly, creativity. As a result, learners enhance their appreciation and enjoyment of music, an achievement that forms an ideal foundation for future study and enhances life-long musical enjoyment.

Learners study music of all styles; each style is placed in its historical and cultural context, and they are encouraged to be perceptive, sensitive and critical when listening. Students continue to build upon the performance and theory skills gained in Key Stage 3 by participating in a variety of solo and ensemble activities. The composition component allows for the opportunity for students to explore and create in genres that expand their musical knowledge. A fuller understanding of music is gained through the listening component of the course. Students are expected to join and regularly attend one of the music ensembles offered by the school to gain more experience in practical music making.

Topics Include:

- Performance two prepared performances, one individual and one ensemble
- Composition: two contrasting compositions
- Listening: Western classical traditions and World Music
- Set works: Classical and World music
- Music theory: Reading and writing music, Scales and chords, Intervals, Instruments of the orchestra

Internal Assessment:

Riverside grades are based on:

- Performance: 30%
- Composition: 30%
- Listening & theory: 40%

External (IGCSE) Assessment:

- Performance: 30%
- Composition: 30%
- Listening: 40%

Textbooks and Resources:

- Online library & software {Musition & Aurelia} - available for students to consolidate listening and theoretical skills
- The Enjoyment of Music by Kristine Forney
- CGP Complete Revision & Practice
- Online resources shared via Google Classroom

Subject: Music Technology

Examination Board: RSL Awards - Level 2 Certificate, Music for Practitioners (Technology)

Course Description:

The Music Technology option provides Senior High students with the opportunity to develop skills as sound engineers, both in the recording studio and in a live sound environment. Music Technology is not an IGCSE or IB course; the students work towards a vocational qualification (VQ) called *Music for Practitioners* by the UK-based RSL Awards, who are best-known for their *Rock School* graded exams.

The assessments are mainly practical, and take place in the studio. The students are assessed by their class teacher, and the marks are verified by an internal verifier at Riverside, and by an external verifier from RSL Awards. Students can achieve a *Pass* for fulfilling the basic requirements, a *Merit* when their practical and written work is of a high standard, or a *Distinction* for outstanding work.

Topics include:

- Microphones
- Cables and Connectors
- The Mixing Desk
- Speakers
- The Digital Audio Workstation (DAW)
- Recording Techniques
- Mixing Techniques
- Health & Safety

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Practical Contribution 60%
- Formal Assessments 30%
- Quizzes/Classwork 10%

Vocational Qualification Assessment (completed in Year 11):

- Sound Recording 50%
- Sound Reinforcement 50%

Textbooks/Resources:

Most resources are shared on Google Classroom. The software *Sounds Active* and *Pro Tools First* are both available on the school computers. Frequently used websites for research and additional reading include:

- www.soundonsound.com
- www.recordproduction.com
- www.pro-tools-expert.com

Most of the recording and mixing will be done using *Pro Tools* software. A free, limited version (*Pro Tools First*) is available by creating an account at [avid.com](http://www.avid.com) and downloading the installer - <http://www.avid.com/pro-tools-first>

Subject: Physical Education

Course Description:

In Physical Education students will be preparing for lifelong participation in physical activity and will have a sense of autonomy over the activities they participate in. Each term, there will be different sports and activities with different areas of focus. These include: Sports Leadership, Adventure, Competitive and Fitness.

An emphasis is placed on their personal engagement, conceptual knowledge and skill development which will contribute towards their overall mark for the unit. Students will have the chance to take part in a varied curriculum, with a broad range of activities on offer.

Activities include:

The core content of the course is as follows:

- Athletics (Track and Field)
- Basketball
- Fitness
- Football (soccer)
- Ice Skating
- Kayaking and canoeing
- Mountain Biking
- Rock Climbing
- Orienteering/Hiking
- Swimming
- Tennis

This subject is a perfect opportunity for students to develop their athletic ability and further develop their knowledge of the skills involved. This will promote a healthy and active lifestyle and the importance of lifelong physical activity in school.

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- | | |
|-------------------------------------|-----|
| ● Personal Engagement | 50% |
| ● Conceptual Knowledge | 30% |
| ● Skill development and performance | 20% |

Subject: IGCSE Physical Education

Examination Board and Syllabus Code: Cambridge International (0413)

Course Description:

The IGCSE Physical Education curriculum offers students the opportunity to delve more deeply into the subject area, while gaining an internationally recognised qualification in Physical Education. Candidates study both the practical and theoretical aspects of Physical Education, each of which is weighted at 50% of the final grade. The course is designed to foster enjoyment in physical activity. The knowledge gained should enable candidates to develop an understanding of effective and safe physical performance, while providing an excellent lead into IB Diploma Program Sports, Exercise and Health Science. The theoretical component offers a broad and interesting analysis of factors influencing effective sports and physical activity participation. The course also backs up student knowledge in many other IGCSE subjects, with topics in biology, physics, chemistry, psychology and sociology and is therefore a good choice in which for students to cement their knowledge in these subjects.

The practical component offers students the opportunity to be assessed in physical activities which will be taught during the curricular and Skills for Life programmes. All sports and activities which students are participating in outside of school can also be assessed.

Topics Include:

Games

- Football
- Badminton
- Golf
- Table tennis
- Tennis
- Volleyball
- Cricket
- Softball
- Rounders

Combat Activities

- Judo
- Taekwondo

Gymnastics

- Artistic gymnastics
- Figure skating
- Trampolining

Theory Topics:

- Anatomy and Physiology
- Health, Fitness and Training
- Skill Acquisition and Psychology
- Social, Cultural and Ethical Influences

Athletics

- Track and field
- Weights and fitness
- Cycling
- Cross country running

Swimming

- Competitive swimming
- Life saving
- Personal survival

Outdoor Activities

- Canoeing
- Hill walking (DofE)
- Horse riding
- Mountain biking
- Sailing
- Rock climbing, Skiing/snowboarding

Dance

- Theatrical dance
- Historical dance

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- | | |
|--|-----|
| ● Assignments, Tests and Binder Organisation | 50% |
| ● Practical Units | 50% |

(IGCSE) Assessment:

Internal Assessment (50%):

Students will be assessed by their PE teacher in all activities. The student's best 4 grades will be submitted to CIE along with a short video of the student participating in these activities. Students must offer activities from at least 2 of the 7 activity areas.

External Assessment (50%):

Candidates will take one exam paper worth 100 marks, covering all of the theoretical topics.

Subject: GCSE Psychology

Examination Board and Syllabus Code: Edexcel (1PSO)

Course Description:

Psychology is a scientific subject that looks at the brain and behaviour. It is about people both as individuals and as members of society. It complements a wide variety of other scientific and social disciplines.

The aims of the course are to:

- Engage in the process of psychological enquiry to develop as effective, critical, and reflective thinkers
- Develop an awareness of why psychology matters
- Acquire knowledge and understanding of how psychology works and its essential role in society
- Develop an understanding of the relationship between psychology and social, cultural, scientific and contemporary issues, and its impact on everyday life
- Develop an understanding of ethical issues in psychology
- Develop an understanding of some of the issues and debates within psychological research
- Develop a critical approach to scientific evidence and methods

Topics include:

- Development – How did you develop?
- Memory – How does your memory work?
- Psychological problems – How would psychological problems affect you?
- The brain and neuropsychology – How does your brain affect you?
- Social influence – How do others affect you?
- Research methods – How do you carry out psychological research?

Two of the following option units will also be studied:

- Criminal psychology – Why do people become criminals?
- The self – What makes you who you are?
- Perception – How do you interpret the world around you?
- Sleep and dreaming – Why do you need to sleep and dream?
- Language, thought and communication – How do you communicate with others?

Psychology requires the use of mathematical skills for handling data in investigations and 10% of marks will be related to mathematical application within Psychology.

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Classwork, Homework and participation. 60%
- Tests after each topic is completed. 40%

External (GCSE) Assessment:

- Paper One - One hour and 45 minutes - 55%
- Paper Two - One hour and 20 minutes - 45%

Subject: IGCSE Religious Studies

Examination Board and Syllabus Code: Edexcel (5RSO1/01 and 08)

Course Description:

Religious Studies (RS) exam lessons are based on the British curriculum system. Although there are no national guidelines for RS, many counties throughout Britain have an agreed syllabus that prepares students for the external exam at Senior High level.

The Senior High School course focuses on the Edexcel Religious Studies B Full Course specification. This course studies the core beliefs and practices of Islam and Christianity as well as their moral responses to subjects such as marriage and the family, matters of life and death, crime and punishment and war, peace and conflict. The curriculum is taught through 3 forty minute periods for Year 11 and 4 forty periods for Year 10 per week.

Topics include:

The Core content of the course is as follows:

- Christian beliefs
- Christianity: Matters of Life and Death
- Living the Christian life
- Christianity: Marriage and the Family
- Muslim beliefs
- Islam: Peace and Conflict
- Living the Muslim life
- Islam: Crime and Punishment

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Projects 20%
- Bookwork 40%
- Tests 40%

External (IGCSE) Assessment:

In May of Year 11 the students will write the following IGCSE examination papers:

- Paper One 50%
- Paper Two 50%

Textbooks/Resources:

Edexcel Religious Studies for GCSE (9-1): Beliefs in Action (Specification B) online textbook
By Victor W. Watton & Robert M. Stone

Subject: IGCSE Spanish

Examination Board and Syllabus Code: Cambridge International (0530)

Course Description:

The Spanish syllabus offers students a thorough grounding in basic concepts of the Spanish language. Students learn to apply a range of grammatical and idiomatic structures to five vocabulary topics, which relate to everyday language use. In the final assessment, there is an equal weighting between listening, speaking, reading and writing skills. Cambridge IGCSE Spanish enables the learner to communicate competently about a range of topics and prepares students to follow the IB Spanish B course at higher or standard level.

Topics include:

- Everyday activities
- Personal and social life
- The world around us
- The world of work
- The international world

Internal Assessment:

Riverside grades reported at the end of the Autumn, Winter and Spring Terms are based on:

- Assessments (end of each half-term) - 60%
- Tests (e.g. vocab and grammar tests) - 15%
- Classwork/Homework - 15%
- Attitude to Learning - 10%

External (IGCSE) Assessment:

In May of Year 11 students take 4 IGCSE examinations for Spanish.

- Listening 25%
- Reading 25%
- Speaking 25%
- Writing 25%

All candidates have access to all elements of the examination. However, for the examination to be appropriate to candidates across the full ability range, separate options are available for Core Curriculum candidates and Extended Curriculum candidates.

Textbooks/Resources

- Cambridge IGCSE Spanish Foreign language by Jacqueline Lopez-Cascante and Judith O'Hare
- Cambridge IGCSE Spanish Foreign language grammar book.
- Websites for use in class but also independent work:
 - www.linguascope.com
 - www.languagesonline.org.uk
 - www.memrise.com
 - www.quizlet.com
 - www.languageresources.org
 - www.bbc.co.uk/schools/gcsebitesize/spanish/