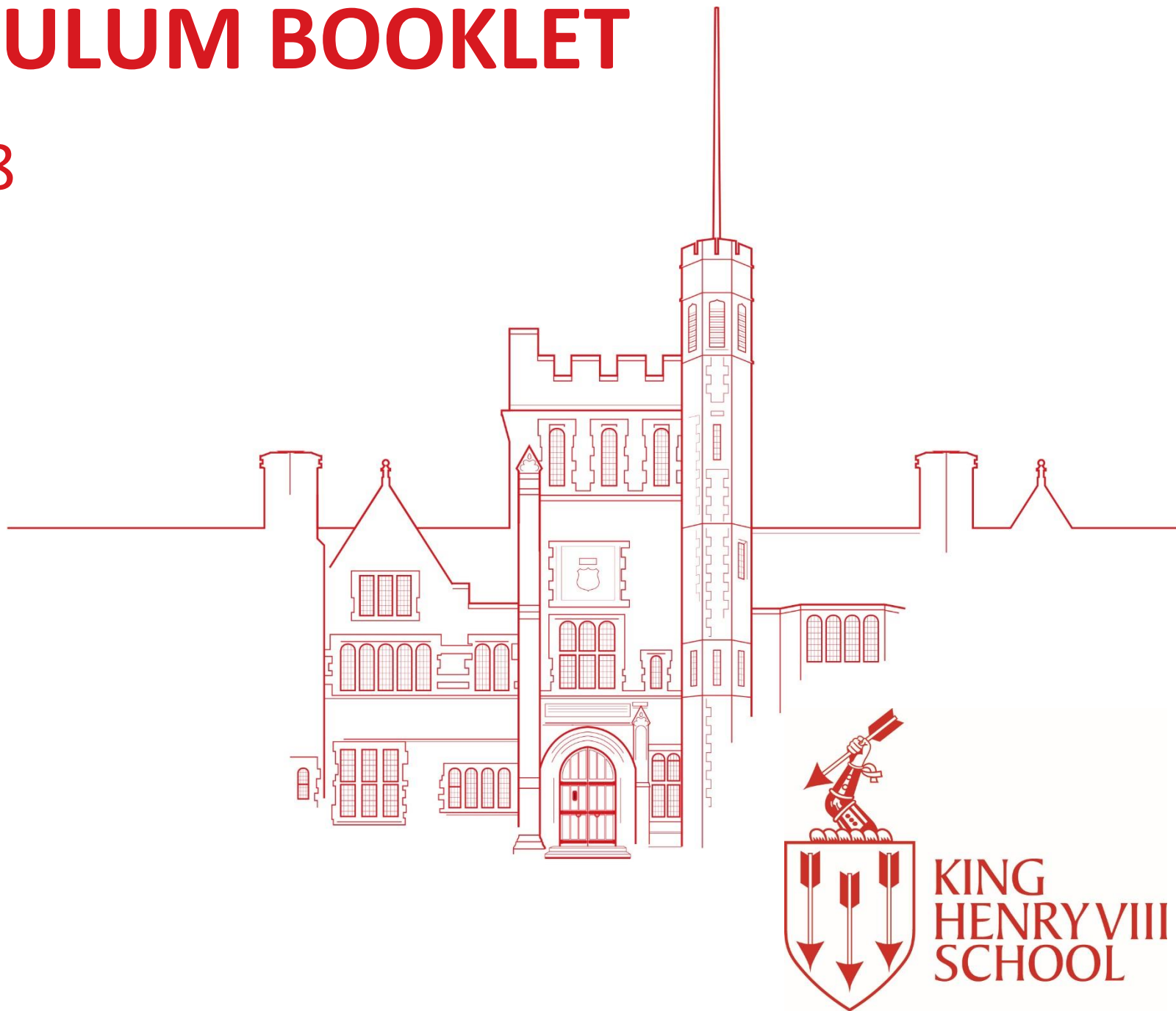


CURRICULUM BOOKLET

2017-2018

YEAR 8



Dear Parent/Guardian

This curriculum booklet has been put together as part of the Home-School partnership. It includes an outline of the Topics / themes studied in each subject throughout the year.

Where possible, this has been arranged into the three terms, although, some subjects do not study the topics in the same order with every group. In addition, some subjects are skills based and it is difficult to define exactly when each skill will be covered. Please be reassured that all groups will ultimately cover the same work leading to a common examination. The examination week will once more take place just before half term in May.

We hope that you will find the booklet informative and useful.

Miss A. M. Weitzel
Deputy Head

September 2017

ART & DESIGN

Autumn Term

Distortion – Portraiture,
ICT Photoshop

Spring/Summer Term

Observational Drawing – Man made
Objects. The focus will be on composition
and viewpoints
(Introduction to Photography)

In Art, there will be some variations between groups according to the timetabling arrangements for the particular group concerned

BIOLOGY

	Autumn Term	Spring Term	Summer Term
Scientific theory	Food and Digestion Respiration	Microbes and Disease Inheritance and Selection	Fit and Healthy Ecological Relationships
Scientific enquiry	Using evidence to make firm conclusions Models Presentation and interpretation of secondary data Using secondary sources of information Working with living materials Considering ideas	Growing micro-organisms safely Reliability Control variables Determining measurements Use of large data sets Identifying patterns Evaluating the strength of evidence Evaluating scientists work Medical advances Valid data Working collaboratively Evaluating conflicting evidence	Sampling in biological investigations Use of data to make predictions Field study skills

DESIGN & TECHNOLOGY

Electronics

Further information about
Electronic circuits & components
Design & manufacture of an MP3
amplifier and a Solar Jar
Circuit assembly and fault finding.
Sticker design and use.
Sustainable design
Test & Evaluation
Decorative graphic work

Food Technology

Nutrition – healthy eating
guidelines
Weekly practical, based on
lowering fat, salt and sugar and
increasing dietary fibre.
Yeast as biological raising agent
Bread making & Shaping
Design and make a pizza
Testing & Evaluation

Resistant Materials

Safety in the workshop
Jewellery and Decorative box
CAD/CAM used to design and
manufacture MDF moulds which are
then used to cast jewellery from pewter.
Decorative boxes are made from
plywood using a range of jointing
methods and lined with felt.
Students design work is scanned and
engraved onto the boxes.
Homework task - to design and model a
lighting product

CHEMISTRY

Autumn Term

Air
Combustion
Rusting
Air pollution

Spring Term

The elements
Competition reactions

Summer Term

Salts
Rates of Reaction

COMPUTER SCIENCE

Control Systems: Flowol, Subroutines, Actuators, Variables Assessment
HTML: Introduction
Website design: HTML/Dreamweaver/CSS
Computational thinking: Introduction, Algorithm, Abstraction

Cryptography: Casear Cypher/Enigma/Bombe/Colossus
Programming: Python – Strings and variables, Numbers and Arithmetic, Selection, Writing Algorithms, While Loops, Searching
Assessment

Safety and Security (Publisher Booklet)
Legislation
Personal Health and Data Safety
Database: Creating Queries, Input Forms, Creating Reports
Assessment
Free Choice Programming

ENGLISH

There will be overlap between Writing and Speaking and Listening activities

Reading

Studying Shakespeare's language and imagery: plays such as *A Midsummer Night's Dream* and *Julius Caesar*

Poetry: *The Rime of the Ancient Mariner*, the sonnet form; free verse poetry

Non-Fiction: Advertising, newspapers, web pages

Fiction: Texts such as *A Kestrel for a Knave*, *King of Shadows*, *Private Peaceful* and *Animal Farm*

The History of the Language: Studying the development of the language – Middle English and Chaucer and *The Canterbury Tales*

Writing

Analytical responses; creative responses

Poetic responses; writing poetry

Writing in media formats

Imaginative responses; essays

Script writing

Spelling, Punctuation and Grammar: colons and semi-colons; sentence structures; connectives.

Speaking and Listening

Paired work / Group work

Individual presentations

Drama

Integrated into lesson activities

FRENCH

ENCORE TRICOLORE NOUVELLE EDITION 1 and 2 – Topics and grammar

Autumn Term

Places in town, directions

Time, daily routine

School subjects

Food and drink

Leisure activities

Grammar:

Aller – present tense

Prepositions of place

Present tense IR verbs

Possessive adjectives

Reflexive verbs

Negatives

Partitive article, expressions of quantity

Jouer à + de, Faire

Spring Term

Introductions, exchange visits, saying thank you, buying souvenirs.

Café + restaurant situations.

Public transport – rail travel, buying tickets.

Holidays in the past

Grammar:

More irregular verbs

Perfect tense in full

Negatives and questions in the past tense

Summer Term

Parts of the body, visiting the doctor, describing symptoms.

General revision.

End of Year examinations – listening, reading, writing, speaking

Grammar:

Perfect tense

Revision of present tense.

Il faut + infinitive commands

Avoir mal + other avoir expressions

GAMES

	Autumn Term	Spring Term	Summer Term
Boys:	Rugby	Hockey	Cricket Tennis/Athletics
Girls:	Hockey	Netball	Athletics Tennis / Rounders

GEOGRAPHY

	Autumn Term	Spring Term	Summer Term
	Brazil <ul style="list-style-type: none">• Climate characteristics and differences• Adaptations and life styles• Development in the rainforest• Favela development Measuring Development <ul style="list-style-type: none">• What is development?• How we measure development.	Globalisation and fashion <ul style="list-style-type: none">• Concept of globalisation• Impact on world trading patterns Fashion industry and its victims Coffee pricing and Fair Trade <ul style="list-style-type: none">• Coffee production• Life of a coffee farmer• Pricing systems and changes Impact of Fair Trade	Food and Packaging <ul style="list-style-type: none">• What kind of images are used on food packaging?• What does the packaging say about the places it portrays? Micro Climates Investigation <ul style="list-style-type: none">• Using instruments around the school site To measure variations in micro-climates

GERMAN

	Autumn Term	Spring Term	Summer Term
Na Klar! 1	Revision of Year 7 basics Accusative revision Types of houses Adjective endings (Nom) Rooms in the house My bedroom Prepositions & dative Places in town	Clothes Hobbies Revision of regular Verbs Irregular verbs Frequency phrases Revision of inversion Weather Past tense	Past tense Chores – separable verbs Modal verbs Future Tense Orals Revision After exams: Time Daily Routine

HISTORY

Autumn Term

Religious change in Britain 1500 – 1605
The Tudor monarchs & their images
Elizabeth the Great?

Spring Term

The English Civil War
Oliver Cromwell

Summer Term

Europe & the World – Exploration

LATIN

Building on linguistic skills acquired in Year 7, the Cambridge Latin Course Book 2 introduces new vocabulary (Vocabulary Checklist at the end of the chapter) and grammar at each stage* and, through the Latin stories and paralinguistic material, illustrates Quintus' visits to Britain, Greece and Egypt and the culture of these places in the 1st Century A.D.

Autumn Term

Britain and its natives
King Cogidubnus of the Regnenses
Fishbourne Palace in Sussex
Funeral games

Spring Term

Quintus in Athens
Alexandria
Eutyclus & Clemens- protection racket

Summer Term

Glassmaking in Alexandria

* More detail can be found on the excellent and comprehensive website that accompanies the Cambridge Latin Course throughout our Year 7-11 GCSE course. Major grammar points include the genitive case, the pluperfect tense, and the principal parts of verbs. One week per half term is allocated to specific topics of Greek Civilisation: the Greek alphabet, gods and goddesses, Greek mythology, the Trojan War.

GREEK

A group of students started a two and a half year course preparing for GCSE Classical Greek in January 2016. This will lead to GCSE qualification in summer 2018. The next intake of students will be in January 2018. Students should see Mr Jones if they are interested in doing Greek.

MATHEMATICS

Autumn Term

Classifying linear graphs
Applications of number
Angle properties
Accuracy
Types of numbers
Simplifying expressions
Constructions
Negative numbers
A more formal approach to fractions
Converting units
2-Dimensional geometry

Spring Term

Prime factorisation
Ratio and proportion
Formulae
Area and Volume
Applications of percentages
Symmetry
Equations
Probability
Sequences
Further fractions

Summer Term

Transformations
Displaying data
Using graphs

There is an emphasis throughout on clear and efficient written communication of Mathematics. Where pupils have encountered topics previously we will develop a more formal approach, focusing, where appropriate, on proof and applications.

MUSIC

Music in Year 8 focuses on more structured and themed composition and performance tasks than those found in Year 7, using the theoretical understanding gained in the previous year as a foundation. Pupils learn some basic techniques of harmonic and melodic construction with the ways in which melody and harmony connect forming the key concept. More advanced pupils may be taught techniques of modulation and learn to effectively handle minor (as well as major) keys.

In progression from the group composition model used in Year 7, Year 8 pupils work on a series of composition and performance projects in a wide range of musical styles, individually, in pairs and in small groups.

Topic covered during the year include:

- The history of blues music.
- Music for advertising.
- A rhythmic samba percussion project.
- A study and performance of film music.
- Performing and identifying elements of folk music.
- Composing a programmatic piece in groups.

Through the varied subject areas, pupils experience a wide selection of music, using keyboards, xylophones, percussion instruments and voices, as well as providing opportunities for those that learn an instrument to incorporate that into the classroom learning environment. Throughout the year, pupils are also encouraged to actively develop their listening and musical appreciation skills alongside composition and performance. Each unit will involve an assessment and the results of these will make up the end of year mark for the subject.

P.E.

All pupils:

Autumn Term

Gymnastics
Basketball (Boys only)
Dance (Girls only)
Swimming
Badminton

Spring Term

Gymnastics
Basketball (Boys only)
Badminton
Dance (Girls only)
Swimming

Summer Term

Athletics

PHYSICS

The Year 8 Physics course continues to develop practical skills through the following topics. In Physics, due to the amount of equipment needed for practical classes may study the topics at different times of the year.

8A Heat

- Thermal Expansion
- Thermal Transfer

8B Electricity

- Simple Circuits
- Current, Voltage and Resistance
- Series and Parallel Circuits.
- Power, voltage and current
- Energy power and time

8CElectromagnetism

- Plotting fields
- Making and testing electromagnets
- Loudspeakers

8D Waves

- Wave types

8E Light

- Shadows
- Reflection
- Refraction

8F Sound

- Transmission
- Amplitude and oscilloscopes
- Speed of sound experiment
- Speed calculations

8G Motion in the Universe

- Solar System scale
- Orbits

8H Stellar Evolution

- Hertzsprung-Russel Diagram
- Galaxies

8I Revision skills

- Active revision techniques

8J Acceleration

- Acceleration experiment
- Velocity and acceleration calculations

PSHE

Autumn Term & Spring Term (timing is flexible between the terms)

Healthy Eating:

- Ideas About Processed Food
- How Healthy is Your Diet?

Bullying or Banter: Is there a difference?

Preparation for Carol Singing

MacMillan Cancer Support Talk

Mental Health:

- Social Media: What's Going On?
- How Many Friends Do You Have?
- What Would 'Real You' Do?

You and the Media:

- Advertising
- Television
- Class Debate
- Current Affairs

Revision:

- A Little Bit, Often
- What Works for You?

Summer Term

Careers:

- What's My Line
- Visits and discussions with professionals

Smoking:

- Health
- The Law

PHILOSOPHY, RELIGION & ETHICS

Thematic
approach –
LOVE

Autumn Term

Unit 1 – Introduction to concept of love through CS Lewis – 4 loves

Unit 2 – An exploration of love in action from within the Christian tradition

Unit 3 – Love as forgiveness – The Crucifixion

Unit 4 – Love as Sacrifice – The Resurrection (The Lion, The Witch & The Wardrobe)

Spring Term

Unit 5 – Sikhism: Love & equality – Guru

Arjan, Guru Tegh Bahadur

Unit 7 – Love & Community – Khalsa

Unit 8 – Living Guru – Guru Granth Sahib

Summer Term

Unit 9 – Love in Action Project

SPANISH

Autumn Term

Introducing yourself
Use the indefinite/ definite article
Ser, tener
Talking about school
ER, IR, AR regular verbs in the present
Irregular verbs in the present

Giving opinions and reasons
Numbers
Learning the negative

Spring Term

Talking about family
Adjectives, agreements and ser
Being able to describe yourself and somebody else

Types of home
Using Hay/ No hay

Estar
Talking about rooms in the house
Using prepositions
Talking about activities
Building longer sentences
Immediate future

Summer Term

Say what you do in your free time
Telling the time
Learning the verb ir
Verb Gustar in the present tense
Me gustaria + infinitive
Verbs that are followed by an infinitive
Talking about sports

Describing your town
Saying what you do in town
Using two tenses together