

Cardinal Heenan Catholic High School

Year 8 Curriculum



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Year 8 English



Subject Leader: C Wright

Year 8 teachers: H Moffat, C Housbey, J Fenton, S Palmer, S Griffiths, A Gould, J Stone-Hindle, C Woods.

Term 1

Gothic fiction

Shakespeare

Term 2

Short stories

'Adventures' theme

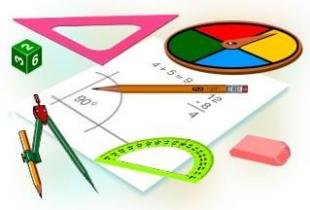
Term 3

'Conflict' theme

Non-fiction writing

Assessments take place 3 times a year and results are reported to parents.

Year 8 Mathematics



Subject Leader: C. Roche

Key Stage 3 Co-ordinator: S Whitehead

Year 8 teachers: A McCabe, A Hadfield, L Tisdale, M Appleton, S Whitehead, M Waterhouse, L Hughes, O McNally

Term 1

Topics/Skills covered:

Revise the four operations, order of operations, negative numbers, fractions and algebra.

Number - Fractions 2 – Multiply and divide proper and improper fractions both positive and negative. Find a fraction of an amount. Find the whole amount given a fraction. Find a fractional increase and decrease.

Number – Percentages – Interpret percentages and percentage change as a fraction or a decimal. Express one quantity as a percentage of another, compare two quantities using percentages and work with percentages greater than 100. Solve problems involving percentage change.

Term 2

Topics/Skills covered:

Algebra 2 – substituting values into formulae and expressions. Simplify and manipulate algebraic expressions, use algebraic methods to solve linear equations in one variable. Understand and use inequalities. Rearrange formulae.

Geometry – Circles and area – Convert between cm^2 and m^2 , area of a circles, compound shapes and trapezium. Calculate and solve problems involving perimeter.

Term 3

Topics/Skills covered:

Ratio, proportion and rates of change – Convert freely between related standard units. Use ratio notation, divide an amount into a given number of parts, find the total amount from given parts. Use compound units such as speed and density to solve problems. Solve problems involving direct and inverse proportion. Draw and interpret pie charts.

Statistics – Construct and analyse stem and leaf diagrams. Find averages from a table.

Geometry – 3D shapes – Recognise and use the properties of 3D shapes to solve problems. Convert between cm^3 and m^3 , know and use the fact that 1 litre = 1000cm^3 . Calculate the

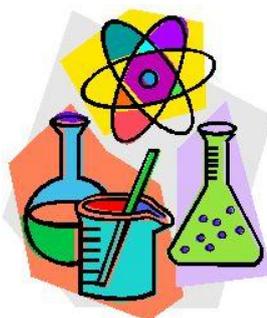
volume and surface area of cuboids and other prisms including cylinders. Construct and interpret plans and elevations of 3D-shapes.

Extra Reading/Research

MyMaths, MathsWatch, BBC Bitesize.

Assessments take place 3 times a year and results are reported to parents.

Year 8 Science



Science Subject Leader: J Prior

Year 8 Science teachers: M Boyle, T Granby, J Shillcock, J Lyons, N Ashton, M Boyle, D Lewis, M Crawford.

Term 1

Topics/skills covered:

1. Ecosystem processes
2. Periodic table
3. Electricity and magnetism
4. Health and Lifestyle
5. Metals and Acids

Term 2

Topics/skills covered:

1. Energy
2. Adaptations and inheritance
3. Separation techniques

Term 3

Topics/skills covered:

1. Motion and pressure
2. The earth and it's properties

Extra Reading/Research

<http://www.bbc.co.uk/education/subjects/zng4d2p>
<http://www.educationquizzes.com/ks3/science/>

Keywords:

Habitat
Community
Photosynthesis
Leaves
Plant minerals
Chemosynthesis
Aerobic respiration
Anaerobic respiration

Food chain
Ecosystem
Group 1 elements
Metals
Non-metals
Group 7 elements
Group 0 elements

Charge
Series circuits
Parallel circuits
Resistance
Magnetic Fields
Electromagnets
Potential Difference

Anything else?

STEM club meets every Tuesday and is following a programme of enrichment activities to challenge our high prior attaining students and give others a greater love of the wider parts of the subjects. Visits have included trips to Liverpool John Moore's University and Jodrell Bank at The University of Manchester. The club has recently invested in some modern, high-tech equipment that is not only going to excite pupils but allow them to engage in modern day science. This investment includes virtual reality goggles which is a great platform to allow students to visualise various scientific concepts and situations in a much more engaging and exciting way.

Assessments take place 3 times a year and results are reported to parents.

Year 8 Religious Education



RE Subject Leader: S Miller

Year 8 RE teachers: R Campbell, S Miller, R McCrink, A Kennedy, T Harrison, B Kelly-Ince.

People of God - Called to serve

Term 1

- What does it mean to be a covenant people?
- How is Jesus the New Covenant?

Term 2

- How do we live as Covenant people?
- How do we live out reconciliation?

Term 3

- An introduction to Islam
- How do we meet the challenge to live justly?

Assessments take place 3 times a year and results are reported to parents.

Year 8 PE



PE Subject Leader: N O'Hare

Year 8 PE teachers: P Sellwood, W Townson, L Johnson, I Forgie, D Hanwell, P Aspinall, N O'Hare

In Year 8, PE lessons will encourage pupils:

- To develop physical competence and help promote physical development and skilful performance
- to know about and value the benefits of participation in physical activity while at school and throughout life
- To develop an appreciation of skilful and creative performance across the areas of activity
- To develop the ability to remember, adapt and apply knowledge, practical skills and concepts in a variety of movement related activities
- To develop a knowledge of safety factors and appreciation of the principles of safe practice.

Pupils will also develop the following:

- observational skills
- problem solving skills
- self-esteem through development of physical confidence
- inter-personal skills

Throughout Year 8 pupils take part in a variety of activities. An example of the Year 8 programme of Study is as follows

Term 1:

Topics/Skills covered:

Rugby, H 4 L, Boxing

Term 2

Topics/Skills covered:

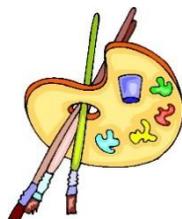
Football, Basketball

Term 3

Athletics, Cricket

Assessments take place 3 times a year and results are reported to parents.

Year 8 Art



Art Subject Leader: P Dougan

Year 8 Art teachers: C Gillmore, P Dougan, A Murphy

Term 1

Topics/Skills covered:

Students will spend Year 8 improving drawing skills. They will create a series of studies looking how to accurately produce shape and form through application of tone. They will look at how light and dark are represented, and how this is translated across several mediums such as pencil, charcoal and oil pastel.

Term 2

Topics/Skills covered:

Students will deepen their understanding of the formal elements through a project based around 'still life drawing'. They will create further drawings around selected objects and learn how to make a successful composition. They will develop their skills in applying some of the more subtle devices such as shadow, tone and detail both in black and white and colour.

Term 3

Topics/Skills covered:

Students will finish the course by building on the basic press print technique touched on in Year 7. They will widen their knowledge of print-making into other techniques such as lithographs and silk screen.

Extra Reading/Research

Students would benefit from looking at the work of artists who have produced still-life, such as the Cubists and the British artist, Patrick Caulfield. They should try to create work at home based on these styles.

Assessments take place 3 times a year and results are reported to parents.

Year 8 Design Technology



Design Technology Subject Leader: P Dougan

Year 8 Design Technology teachers: P Melia, J Donegan, S Williams

Term 1

Topics/Skills covered:

- Recycling and reusing looking at the '6Rs'
- Carbon footprints and our environmental impact.

Term 2

Topics/Skills covered:

Mechanisms and types of motion

- Levers
- Linkages
- cams

Term 3

Topics/Skills covered:

First making project 'the gate'

- working to a brief
- research
- developing solutions
- making

Assessments take place 3 times a year and results are reported to parents.

Year 8 Food Preparation and Nutrition



Food Technology Subject Leader: J Mortimore

Year 8 Food Technology teachers: J Donegan, S Williams, J Mortimore

Term 1

Topics/Skills covered:

- The five food groups
- Macronutrients & Micronutrients
- Ability to conduct sensory analysis
- Safe knife skills
- Boiling cooking method

Term 2

Topics/Skills covered:

- Construction of gluten
- School Food Plan
- Seasonality
- Kneading
- Science of Bread
- Safe use of the oven

Term 3

Topics/Skills covered:

- Protein of Foods
- HBV & LBV
- Balanced diet
- Fair testing
- Hypothesis
- Sautéing
- Hob control
- Knife skills

Key Words: Macronutrients, micronutrients, nutrients, sensory, analysis, hygiene, protein, fat, carbohydrates, Eatwell Guide, composite foods, harvesting, seasonality, excess, deficiency, sautéing, provenance

Assessments take place 3 times a year and results are reported to parents.

Year 8 Geography



Geography Subject Leader: P Melanaphy

Year 8 Geography teachers: P Melanaphy, A Slaughter, C Woods, E Holley

Term 1

Population – investigating global population increases and the population structures of different countries; studying a range of strategies that have been tried by countries experiencing rapid population growth; studying ageing population impacts on the future development of a country; studying population movement impacts on both the source regions of migrants and the receiving countries.

Coasts - learning about the coastline of the UK; how waves attack the coastline and the landforms which are created; studying the depositional features created and the impact of rising sea levels for future generations.

Term 2

Tectonics - learning about the earth structure and plate tectonics with a focus on the causes, effects and response to earthquake and volcanic activity.

Tourism – learning about the global growth of tourism and how it has seen the exploitation of a range of different environments for holidaymakers; investigating effective management strategies that are key to the continuing prosperity of tourist areas in the UK; learning that mass tourism has advantages for an area but strategies need to be in place to reduce the likelihood of long-term damage; looking at extreme environments that are susceptible to environmental damage from the development of tourism.

Term 3

Development - learning about development in Africa and the difference in standard of living; looking at types of Aid and projects that can improve the lives of people living in poverty; learning about the development of a tourism industry and the influence of football.

Middle East – learning about the population of the Middle East; the conflict that takes place in this region, how the area has become developed with the introduction of tourism to cities such as Dubai.

Assessments take place 3 times a year and results are reported to parents.

Year 8 History



History Subject Leader: C Duffy

Year 8 History teachers: F Rushe, N Davies, L O'Toole.

Term 1

Topics/Skills covered:

1. **The English Civil War** – pupils continue to look at the development of the state. For example, links will be made to the Magna Carta which the pupils studied in Year 7. Pupils will be able to recognise the development of democracy and parliament since medieval times. The focus is on the causes of the English Civil War and the outcome for England. Historical skills addressed – cause and consequence, using evidence and significance.
2. **Cromwell and the Interregnum Period** – pupils will look at the different interpretations of Oliver Cromwell the Lord Protector of England after the English Civil War. Historical skills addressed – change and continuity, using evidence, significance and historical interpretations.

Term 2

Topics/Skills covered:

1. **The Restoration, Plague and Fire of London** – pupils will look at the return of the monarchy and two important disasters under the reign of King Charles II. Historical skills addressed – cause and consequence, change and continuity, using evidence, significance and historical interpretations.
2. **Empire** – the focus of this topic is to study the British Empire. The Transatlantic Slave Trade will make up part of this topic as well as looking at Liverpool's role in the slave trade. The depth study is on India as a British colony. Historical skills addressed – cause and consequence, change and continuity, using evidence, significance and historical interpretations.

Term 3

Topics/Skills covered:

The Holocaust – pupils will use their prior knowledge gained on Holocaust Memorial Day to look at the persecution of the Jews and other minority groups under the Nazi Regime. Pupils will also have the opportunity to look at other challenges faced in the world since the Holocaust. This topic is aimed to also develop the pupils’ moral code and skills of empathy and understanding. Historical skills addressed –cause and consequence, change and continuity, using evidence, significance and historical interpretation.

Extra Reading/Research

KS3 History Britain 1509-1745: Renaissance, Revolution and Reformation, (Aaron Wilkes, Third Edition, 2014).

Key Words:

long term cause, short term cause, trigger cause, interregnum, republic, restoration, colony, empire, holocaust, persecution, genocide.

Assessments take place 3 times a year and results are reported to parents.

Year 8 Information Technology



ICT Subject leader: J Mitchard

Year 8 ICT teachers: K Rowan, S Strawson, J Mitchard.

Term 1

Topics/Skills covered:

Digital Footprint - pupils will understand how their digital footprint can affect their online reputation and how to manage it so that they represent themselves in a positive way.

Debating issues around current news articles.

Data representation - they will now be able to convert Hexadecimal and ASCII and understand how images are represented.

Term 2

Topics/Skills covered:

Using Python, a textual programming language, to solve a variety of computational problems; making appropriate use of data structures [for example, lists, tables or arrays] to design and develop modular programs that use procedures or functions.

Term 3

Topics/Skills covered:

Music Festival – organising a music festival in the local area. Pupils will:

- Investigate and research location, customer base, music genre and acts (copyright, plagiarism)
- create a logo and strapline for the organisation
- use spreadsheets and database to help in the organisation of the event (Data Protection Act)
- create a flash banner and digital advert to advertise the event online
- create a website for the festival

Extra Reading/Research

Get coding! There are many coding website that pupils should enrol on to develop their coding/programing skills such as CodeAcademy (<https://www.codecademy.com/>). Practice really does make perfect! In school this year we will be using a programming language called Python which is free to download and use at home to complete some coding challenges.

Key Words:

digital footprint, personal data, e safety, social media, binary, Base 2, denary, hex, computational thinking, loops, repeat, sensors, detect, computer control, robotics, flowcharts, sequence, start/stop, input/output, process, decision, flowol, mimics

Anything else?

During the first term pupils will take part in the UK Bebras challenge. This competition introduces computational thinking to students. It is sponsored by Oxford University and Google and organised in over 40 countries; it is designed to get students all over the world excited about computing. They will also take part in the Hour of Code. The Hour of Code is a global movement by Computer Science Education Week and Code.org, reaching tens of millions of students in 180+ countries through a one-hour introduction to computer science and computer programming

Assessments take place 3 times a year and results are reported to parents.

Year 8 Modern Foreign Languages



Modern Foreign Languages Subject Leader: A Bower

Year 8 Modern Foreign Languages teachers: L Goodridge, S Saleh, C Murphy, C McConville, A Bower.

Term 1

Topics/Skills covered: Free time activities

Regular *-ar* verbs in the present tense; using opinions with infinitive to extend sentences. Talking about the weather with the key verb '*hace*' and linking the weather to activities with '*cuando*'. Learning different sports with key verbs '*jugar*' and '*hacer*'. Understanding cognates and near cognates in written and spoken language

Term 2

Topics/Skills covered: House and home

Talking about where you live and describing where you live with '*estar*' and '*ser*'. Learning rooms in the house with '*hay*' and saying what floor they are on. Describing your bedroom and using prepositions to say where bedroom items are and saying what you do in the bedroom. Describing your daily routine with key reflexive verbs

Term 3

Topics/Skills covered: My city

Describing your town or village, using '*a*' 'some' and 'many' in Spanish and giving opinions about your town or village. Talking about the time with the key irregular verb *-ir*. Ordering food at a café with the key stem changing verb '*querer*'. Introduction to the immediate future to talk about your plans for the weekend. Understanding other people talking about their town/village and recognising different tenses

Assessments take place 3 times a year and results are reported to parents.

Year 8 Music



Music Subject Leader: C Mulligan

Year 8 Music teachers: C Mulligan, J Sanderson, L Quirk

Term 1

Topics/Skills covered:

- Film music – recap of the elements of music and introduction of sharps and flats.
- Group composition based upon a given scene using a variety of instruments.
- Introduction of tonality – major/minor/chromatic/pentatonic scales.
- Treble clef notation.
- Keyboard skills – *Fur Elise* Beethoven

Term 2

Topics/Skills covered:

- Introduction to the blues including the history, key features, influence on other genres and development over time.
- Keyboard skills – performance of Jackass Blues.
- Composition skills – blues composition using Sibelius notation software.

Term 3

Topics/Skills covered:

- Conventions of pop including pop song conventions, use of primary chords, verse/chorus structure, ground bass and creating riffs.
- Project based work.

Extra Reading/Research

BBC Bitesize, YouTube to watch and listen to movie soundtracks.

Key Words:

tonality; chromatic, pentatonic, major, minor, sharps, flats, elements of music, treble clef, blues, rhythm and blues, rock'n'roll, rock, riffs, primary chords

Assessments take place 3 times a year and results are reported to parents.

Year 8 Drama



Drama Subject Leader: D Jones

Year 8 Drama teachers: D Jones, E Charlton, S Saleh

Term 1

Topics/Skills covered: Performing to an Audience 2

Interpreting text

Developing a role

Multi-Role

Language of the character

Intonation

Character communication

Term 2

Topics/Skills covered: Devising and Strategies

Documentary drama

Placards

Addressing the audience

Cross cutting

Physical theatre

Symbolism

Term 3

Topics/Skills covered: Page to Stage 2

Blocking

Developing a role

Character interaction

Given circumstances

Gesture/Mannerisms

Mood/Atmosphere

Key Words: Posture stance gait symbolism communication stage areas

Extra Reading/Research

Attend school trips to the theatre

Participate in school play

Attend Drama club

Assessments take place 3 times a year and results are reported to parents.