

# Netherhall School

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## English

### KS3

- Class novel Private Peaceful
- 19<sup>th</sup> Century non-fiction
- Introduction to rhetoric
- Shakespeare, aspects of comedy – A Midsummer Night's Dream
- Romantic Poetry
- Class novel -Animal Farm
- Dystopian Writing
- Shakespeare, aspects of tragedy – Romeo and Juliet
- Writing non-fiction
- War poetry

### KS4

- Modern Drama - An Inspector Calls
- Shakespeare - Macbeth
- Power and Conflict poetry
- 19<sup>th</sup> Century novel (A Christmas Carol)
- Exploring Non-Fiction of the 19<sup>th</sup> century
- Writing to argue/persuade
- Descriptive and narrative writing

### KS5

- Language the Individual and Society
- Language Representation
- Language Diversity (Accent and Dialect, Gender, Social Group, Occupation)
- Coursework- Original Writing and Commentary
- Language Change
- Language Acquisition
- Global English
- Coursework - Language Investigation

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## Drama

### KS3

- Introduction to Drama
- Devising Theatre 1
- Scripts
- Design, rehearse and perform
- Scriptwriting 1
- Final performance
- Building skills
- Responding to stimulus
- Devising theatre 2
- Physical Theatre Performance
- Shakespeare
- Design, rehearse and perform
- Scriptwriting 2
- Final performance

### KS4 Drama - Coming Soon

## Maths

### KS3 & 4

- N1 Adding and subtracting
- A1 Sequences
- N2 Multiplying and dividing
- S1 Area and measures
- A2 Functions and graphs
- D1 Averages and surveys
- N4 Fractions
- A3 Simplifying
- S4 Transformations
- N5 Percentages
- A4 Equations
- S2 Angles
- D2 Probability
- N3 Types of number
- S3 Constructions

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## KS5

- Pure – algebra, functions, geometry, trigonometry, vectors, exponentials, logarithms, integration, differentiation, algebraic and partial fractions, binomial theorem, series and sequences, parametric equations, functions, modelling
- Mechanics – quantities and units, kinematics, forces and Newton's Law, moments, applications of kinematics and Newton's Law
- Statistics – sampling, representation, interpretation, probability, distributions, hypothesis testing, regression, correlation, normal distribution

## Biology

### KS3

- Cells
- Body Systems
- Reproduction
- Healthy lifestyles
- Ecosystems
- Adaptation and inheritance

### KS4

- Cell biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis and response
- Inheritance, variation and evolution
- Ecology
- Key ideas

### KS5

- Biological molecules
- Cells
- Organisms, exchange substances with their environment
- Genetic information, variation and relationships between organisms
- Energy transfers in and between organisms
- Organisms response to internal and external environments
- Genetics, population, evolution and ecosystems
- The control of gene expression

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## Chemistry

### KS3

- Particle model
- Atoms, elements and compounds
- Chemical reactions
- Acids and alkalis
- Periodic table
- Separation techniques
- Materials
- The Earth

### KS4

- Atomic structure and the periodic table
- Bonding, structure and properties
- Chemical calculations
- Chemical changes
- Energy changes
- Rates of reaction
- Equilibrium
- Chemical analysis
- Chemistry of the atmosphere
- Using resources

### KS5

- Physical chemistry
- Atomic structure, Amount of substance and chemical bonding
- Energetics
- Kinetics
- Chemical equilibria
- Oxidation, reduction and redox equations
- Thermodynamics
- Rate equations
- Electrode potentials and electrochemical cells
- Acids and bases
- Inorganic chemistry
- Periodicity
- Group 2, the alkaline earth metals
- Group 7(17), the halogens
- Properties of Period 3 elements and their oxides
- Transition metals
- Reactions of ions in aqueous solution
- Organic chemistry
- Alkanes, Halogenoalkanes, Alkenes, Alcohols
- Organic analysis



## **KS5 Chemistry Continued**

- Optical isomerism
- Aldehydes and ketones, Carboxylic acids and derivatives
- Aromatic chemistry
- Amines, Polymers
- Amino acids, proteins and DNA
- Organic synthesis
- Nuclear magnetic resonance spectroscopy
- Chromatography

## **Physics**

### **KS3**

- Forces
- Sound
- Light
- Space
- Electricity and magnetism
- Energy
- Motion and pressure
- New Technologies

### **KS4**

- Energy
- Electricity
- Particle model
- Atomic structure
- Forces
- Waves
- Space
- Magnetism

### **KS5**

- Materials
- Forces
- Mechanics
- Waves
- Electricity
- Magnetic Fields
- Electric Fields
- Gravitational Fields
- Option Topic
- Further Mechanics
- Thermal
- Nuclear

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## **Applied Science**

### **KS5**

- Unit 1: Key concepts in science
- Unit 2: Applied experimental techniques
- Unit 3: Science in the modern world
- Unit 4: The human body
- Unit 5: Investigating science
- Optional: Unit 6a: Microbiology, Unit 6b: Medical physics, Unit 6c: Organic chemistry

## **ICT**

### **KS3**

- E-safety
- Basic computer skills – word, publisher, PowerPoint & internet
- Email
- Algorithms and programming
- Packaging
- E-safety
- Hardware and networks
- Programming
- Databases
- Spreadsheets
- Pivot animation

### **KS4**

- Exploring user interface design principles
- Project planning techniques
- Collecting, presenting and interpreting data
- Effective digital working practices

### **KS5**

- Fundamentals of ICT
- Global information
- Virtual and augmented reality
- Project management
- Internet of everything

## **Computer Science**

### **KS4**

- Computer systems
- Computational thinking
- Algorithms
- Programming

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## **Business**

### **KS5**

- What is business
- Marketing and marketing segmentations
- Decision making to improve financial performance
- Analysing the strategic position of a business
- How to pursue strategies to include innovation
- Managing strategic change

## **Art**

### **KS3**

- Morandi
- Matisse
- Stella
- Calder
- Shape
- Colour
- Pattern
- Tone
- Texture
- Drawing & Painting
- 3D modelling
- Paolozzi
- Drawing
- Collage
- Printmaking
- Pattern

### **KS4**

- Basic skills
- Reflection
- Order and Disorder
- Architectural Forms
- Externally Set Assignment

### **KS5**

- Distorted Figures
- Aspects of the Landscape
- Mock exam (student led project)
- Personal Investigation (student led project)
- Externally Set Assignment

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## Photography

### KS4

- Texture
- Balance and Landscape
- Portrait of a Place
- Evidence of Human Presence
- Reflection
- Architectural forms
- Externally set assignment

## Graphics

### KS4

- Artist research
- Typography
- Product branding
- Perspective drawings
- Retail design
- Promotional materials

## Technology

### KS3

- Food technology
- Keyfob
- Perspective drawing
- CAD/CAM
- Puppets
- Lucy Sparrow – Felt food
- Food technology
- Perspective drawing
- Lettering and commercial rebranding

## Food & Nutrition

### KS4

- Food safety
- Health & safety
- Hospitality environment
- Customer service
- Hospitality and catering provision and events

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## Construction

### KS4

- Construction technology
- Construction industry
- Scientific and mathematical applications
- Exploring painting and decorating techniques

## Geography

### KS3

- Map skills
- Rivers
- Weather/Climate
- Africa
- Resources
- Local Study
- Tectonics
- Ecosystems
- Development
- Urbanisation
- Coasts
- Russia/China

### KS4

- Landscapes of the UK: coast and rivers
- Weather hazards and climate change
- Ecosystems, biodiversity and management
- Changing Cities
- Global development
- Resource management
- UK Challenges (topic style, longer questions)
- River fieldwork
- Rural environment fieldwork

### KS5

- Water and carbon cycles
- Coastal landscapes
- Hazards
- Changing Places
- Population and the environment
- Global systems and global governance

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## History

### KS3

- The Romans
- The Battle of Hastings
- Medieval rulers
- The Development of the Church and State in Britain (1066-1553)
- Elizabeth Tudor and the Spanish Armada
- The Gunpowder Plot and English Civil War
- Slave trade
- Industrial revolution
- World War I and II

### KS4

- Conflict and tension: 1894-1918
- Germany: Democracy to dictatorship
- Health and people
- Elizabethan England

### KS5

- 20<sup>th</sup> Century British politics
- Germany: 1919-1963
- Tudor rebellions

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## **Religious Education**

### **KS3**

- Myself and others
- Key figures in Christianity
- Jesus' journey
- An introduction to Islam
- Religious festivals
- Beliefs
- The nature of God
- Religion poverty and wealth
- Key figures in Islam
- The five pillars of Islam
- The ummah

### **KS4**

Christianity:

- beliefs, teachings and practices

Islam:

- beliefs teachings and practices
- Religious, philosophical and ethical studies in the modern world:
- Issues of relationships
- Issues of life and death
- Issues of good and evil
- Issues of human rights

### **KS5**

Philosophy:

- Ancient philosophical influences
- Soul, body and mind
- Arguments for the existence of God
- Religious experience
- Problem of evil
- Religious language
- Nature and attributes of God

Ethics:

- Natural law
- Kantian ethics
- Utilitarianism
- Euthanasia
- Business ethics
- Conscience
- Sexual ethics
- Meta ethics

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## **KS5 Religious Education Continued**

Developing Christian thought:

- Augustine's teaching on human nature
- Death and afterlife
- Nature of God
- Jesus
- Christian moral principles and actions
- Religious pluralism
- Gender and religion
- Secularism
- Liberation theology

## **Music**

### **KS3**

- Building bricks
- Musical structures
- Samba music
- Blues music
- Musical clichés
- Pop music

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## French

### KS3

- Francophone culture
- Introductions, greetings and personal information
- Likes and dislikes
- My survival kits
- Describing myself
- Describing others
- Describing a musician/star
- Francophone culture
- Television
- Films
- Reading
- The internet
- Hobbies and pastimes using the past tense

### KS4

- Relationships with family and friends
- Interests and socialising with friends and family
- Customs and everyday life in francophone countries around the world
- Food and drink and shopping
- Social media and technology
- Celebrations and festivals in francophone countries around the world
- School, trips and events
- Forming relations, travel and employment
- Ambitions for the future, jobs, careers and professions
- Campaigns and good causes
- The environment

### KS5

- France and French speaking countries and territories around the world
- French family structure, marriage and relationships
- Education and future aspirations
- The world of work, work-life balance, strikes and gender equality in the workplace
- Political and artistic culture in francophone countries
- Music and media
- Celebrations, festivals and traditions in France and francophone countries around the world
- Immigration and multiculturalism
- Politics, the National front and public opinion in France
- The occupation of France, politics and the French resistance during the second world war

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## **PE**

### **Year 7 and 8 Boys**

Football  
Rugby  
Gymnastics  
Badminton  
Basketball  
Fitness  
Athletics  
Striking and fielding

### **Year 7 and 8 Girls**

Netball  
Rugby  
Badminton  
Fitness  
Gymnastics  
Football  
Athletics  
Striking and fielding

## **KS4**

- How the body responds to exercise
- How the body adapt to exercise
- Components of fitness and skill related fitness
- Types of fitness
- Principles of training
- Training Methods
- Fitness testing
- Rules, regulations and scoring systems in sports
- Roles and responsibilities of officials
- Performance analysis
- Learn the attributes of a good leader
- Plan and lead a sports activity
- Review and analysis of leadership

## **KS5**

- Practical skills in team games and individual activities
- Muscular Skeletal system
- Cardiovascular system
- How the body responds and adapts to exercise
- Organize, lead and review sports events.
- Outdoor adventure activities
- Plan, lead and review coaching sessions
- Sports organization
- Developments in sport

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## Childcare

### **KS4**

- Children's growth and development
- Learning through play
- Supporting children to play, learn and develop

## Health & Social

### **KS4**

- Core values
- Communication
- Body systems and disorders
- Development and protection of children and young people

### **KS5 Single**

Mandatory:

- Positive relationships
- Equality and diversity
- Health and Safety

Optional:

- Psychology
- Public health
- Dementia
- Mental health

### **KS5 Double**

Mandatory:

- Safeguarding
- Person-centred care

Optional:

- Infection control
- Learning difficulties
- Positive behaviour
- Youth work practices

## Guidance

### **KS3**

- Puberty & relationships
- Personal Identity & Emotions
- Alcohol & Smoking
- Diversity in the UK
- Self Esteem & Target Setting
- Body Image & Media Representation
- Gender, Identity & Prejudice
- Healthy Lifestyles
- Career Planning

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