



Year 9 HT1

This term, the following aspects of the curriculum will be covered in your child's class:

Art

**Mechanical**

Within this half term students will:

- Learn about mechanical (Tone, up close observational drawing, shadow, shape, highlights, tone, artist studies and analysis)
- Work in sketchbook which demonstrates all the key skills and techniques, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

Drama

**Physical Theatre**

Within this half term students will:

- Learn about the key techniques and skills of performance in drama (Body as a prop, ensemble, physical tension, subtext, unison)
- Create practical work demonstrating the techniques and skills learnt, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

English

**King Lear**

Students will be able to:

Independently select relevant quotations from King Lear.

Make clear points about characters' thoughts and feelings from the text.

Identify relevant language and the way King Lear is structured and make clear comments about Shakespeare's choices.

Make clear comments on how the context and setting creates drama in King Lear.

Express clear views about the characters and events we are studying in King Lear and justify opinions.

Share clear views about King Lear to a group of students and respond to questions.

Food Technology

**Food Around the World**

Within this half term students will:

- Identify a wide range of foods from different countries and explain in detail the reasons why we eat foods from around the world.
- Identify and explain all the key critical temperatures to control and prevent bacterial growth when working with food.
- Identify a wide range of hazards to food and explain the controls needed to prevent cross-contamination and food poisoning.

- Use a range of techniques to create dishes that have been prepared and cooked independently with precision. Considering food safety and hygiene as well as presenting dishes to the teacher, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## French

### Où j'habite

About the unit:

In this unit pupils further develop their ability to compare different countries and cultures. They also extend their knowledge about an area of a French speaking country by learning about particular cities/countries/areas. This unit provides ample scope for adapting to suit individual department's knowledge, expertise or interest. The whole unit could concentrate around one city in France or it could include a variety of countries or areas from around the French-speaking world.

The key vocabulary for pupils to master in this unit includes geographical and tourist vocabulary, including activities such as shopping. Town facilities and holiday vocabulary can be revisited and extended.

Learning objectives

- On peut + infinitive
- Revisiting town facilities and il y a/ il n'y a pas (some simple environmental issues can be introduced here and will be explored in a little more depth under unit 12)
- Revisiting now and then
- Revisiting giving opinions and justifications
- Introduction to one or several cities/regions where the target language is spoken
- Simple vocabulary relating to geography such as: population, river, desert, mountain, volcanoes, hill, etc. depending on the area chosen
- Revisiting learning objectives from previous sequence but applied to the French speaking area chosen
- Revisiting and extending comparisons
- Revisiting expressing future wishes
- Tourist vocabulary including revisiting transport (excursions)
- Exclamations such as : how interesting! How pretty! How exciting! Etc.
- Shopping vocabulary and expressions including revisiting money, colours and comparisons
- Role-play practice
- Revisiting weather expressions in all time frames
- Revisiting future time frame and holiday activities/excursions vocabulary
- Revisiting future wishes

## Geography

### Unit 1- Life in emerging economies

Pupils will extend their locational knowledge and deepen their spatial awareness of the world's countries using atlas maps to focus on the location of newly emerging economies. This unit further develops pupil understanding of development and interdependence.

Describe the location of the newly emerging countries and the characteristic of them.

Explain why rural to urban migration is a key feature of life in emerging countries.

Assess the opportunities and challenges faced by people living in city in an emerging country.

Evaluate the social, environmental, economic and political impacts of TNC(s) in emerging countries.

## History

Students will be able to describe several of the reasons why The First World War broke out in August 1914. Students should be able to describe 3-4 of the following factors: The Great Powers, long term causes of WW1, short term causes of WW1, The Assassination of Franz-Ferdinand.

### Information Technology

This topic is based around the main features of Boolean logic and the gates which are used. By the end of the unit students will understand what Boolean logic is and why it is important within a computer system.

### Maths

- Place value e.g. ordering integers and decimals, working with very large and very small numbers, use the symbols =, ≠, <, >, ≤, ≥
- Recognise and problem solve with Odd and Even numbers
- Negative Numbers: ordering, manipulation
- Adding, subtracting, multiplying and dividing integers and decimals
- Manipulation of Decimals e.g.  $2.54 \div 4$ , using one calculation to perform another, ordering decimals (including use of inequality symbols)
- Calculations involving money and correct use of units
- Order of operations (BIDMAS): use conventional notation for priority of operations, including brackets, powers, roots and reciprocals
- Prime numbers, prime factor decomposition, LCM, HCF (of small and large numbers)
- Powers and roots e.g. squares (from  $1 \times 1$  to  $15 \times 15$ ), cubes (2, 3, 4, 5 and 10) and their corresponding roots
- Recognise powers of 2, 3, 4, 5
- Rounding number to the nearest 10, 100, 1000, and to a given number of decimal places
- Rounding to significant figures
- Estimate answers to one or two step calculations
- Calculations involving surds and rounding
- Simplify ratios
- Write ratios in form 1 : m or m : 1
- Divide a quantity into a given ratio
- Write ratios as fractions
- Compare lengths, areas and volumes using ratio notation and scale factors
- Apply ratio to real contexts and problems such as those involving conversion, comparison, scaling, mixing, concentrations

### Music

#### Film Music

This half term students will:

- Students will explore techniques and conventions used for composing Music for Film and T.V. Motifs, harmony, tonality and the use of the interrelated dimensions of music will be studied for understanding on how music enhances or creates moods and movement to the moving image. Students will enhance their knowledge from techniques in Minimalism, studied in Year as well as showing understanding in music theory such as notation and instructions.
- Demonstrate through verbal and practical skills, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Physical Education

Students will be able to:

- Show imagination and innovation when performing advanced skills in football, rugby, netball, hockey, handball/basketball, badminton, fitness and aesthetic activities
- Accurately evaluate the effectiveness of your own and/or others' team/group performances implementing appropriate improvements
- Confidently undertake leadership and officiating roles in at least 3 practical settings, showing excellent knowledge of appropriate rules / laws and effective communication skills

- Meet the strenuous exercise demands required for a range of specific activities, combining aerobic endurance, flexibility and at least 2 other components of fitness required

### Religious Education

Religious education is delivered in one lesson per week and is an opportunity for pupils to explore and understand the belief systems in the world around them and what supports the decisions individuals make.

The key focus throughout the course is that pupils can express their own views concisely and respectfully, understand the influences on these views and why others might hold different opinions.

In Half term 1 we consider the nature and problem of evil.

Pupils will;

- ✓ Develop substantive and personal knowledge on a range of ethical issues
- ✓ Develop reading for meaning skills through regular reading comprehension tasks
- ✓ Develop academic writing skills to support progression in Religious Studies and a wide variety of other subjects.

### Resistant Materials

#### Pacman and Robolamp

In this project students will:

- Know the health & safety issues in the textile's classroom.
- Learn how to use equipment for each part of the project
- Use acrylic to make a product, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Science

Students will be able to:

- Define and calculate a moment
- Measure Extension or compression and relation to Hooke's Law
- Describe balanced forces in relation to mechanical systems
- Compare light, mechanical and sound waves
- Describe the process of reflection, absorption and superposition
- Describe uses of sound and ultrasound

### Textiles

#### Project Applique

In this project students will:

- To gain an understanding that an area can change over time-history of Stocksbridge, to learn about Pete McKee his work and his inspiration and to understand how to analyse a design context and a design brief.
- To be able to recap stitches and settings.
- To mount up all samples into design booklet with stitch widths and lengths.
- Be produce a practical piece, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

This term, the following aspects of the curriculum will be covered in your child's class:

**Art**

**Mechanical**

Within this half term students will:

- Learn about mechanical (Tone, up close observational drawing, shadow, shape, highlights, tone, artist studies and analysis)
- Work in sketchbook which demonstrates all the key skills and techniques, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

**Drama**

**King Lear**

Within this half term students will:

- Learn about the key techniques and skills of performance in drama (Script, voice, themes, marking the moment, action clip)
- Create practical work demonstrating the techniques and skills learnt, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

**English**

**Drama: The Crucible**

Students will be able to:

Independently select relevant quotations from texts.

Identify relevant language and the way texts are structured and make clear comments about writer's choice.

Make clear comments about writer's purpose and methods.

Express clear views about the texts and justify opinion.

**Food Technology**

**Food Around the World**

Within this half term students will:

- Hazards to food and the controls needed to prevent cross-contamination and food poisoning.
- Use a range of techniques to create dishes that have been prepared and cooked independently with precision. Considering food safety and hygiene as well as presenting dishes to the teacher, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

**French**

**Future plans: Work**

About the unit:

In this unit pupils further develop their ability to discuss s develop their ability to discuss their hopes and ambitions for the future combining more than one way of expressing the future time frame.

The key vocabulary for pupils to master in this unit includes jobs, professions and personal characteristics required for different career paths; work locations and verbs for everyday work-related activities.

Learning objectives

- Jobs, professions, career paths
- Personal characteristics and preferences required for various jobs: description
- adjective agreement
- Narrating what somebody else does for a living including your opinions and theirs about it
- Future tense
- Expressing future wishes using the present tense: j'espère + infinitive, etc.
- Expressing future wishes and hopes beyond work using the conditional tense

## Geography

### Unit 2- Issues of urbanisation in the UK

This unit focuses on urban areas in the UK. A central theme throughout the urban areas to become more sustainable. Students will develop an understanding of both the problems and solutions of urban living within the UK. This unit will conclude with pupils investigating the success and failures of a regeneration project in improving the sustainability of a part of a city.

Describe factors which led to the growth of cities in the UK and the land use patterns within these.

Explain the causes of urban change and dereliction in the UK.

Explain the ways in which urban area can be made more sustainable.

Assess the effectiveness of a regeneration project in improving life within a city.

## History

Students will be able to describe features of The First World War. Recruitment, Trench Warfare, The Battle of The Somme, Field Marshal Haig, The Russian Revolution, soldiers shot at dawn, empire soldiers, the end of The First World War and The Treaty of Versailles

## Information Technology

This topic is based around the main features of Boolean logic and the gates which are used. By the end of the unit students will understand what Boolean logic is and why it is important within a computer system.

## Maths

- Write a fraction in its simplest form and find equivalent fractions
- Covert between fractions, decimals and percentages
- Compare unit fractions
- Order fractions, decimals and percentages. Use the symbols =, ≠, <, >, ≤, ≥
- Recognise recurring decimals and convert fractions into recurring decimals
- Add and subtract fractions and mixed numbers with different denominators
- Multiply and divide fractions and mixed numbers. Simplify calculations by cancelling first
- Fraction of an amount
- Identify and work with fractions in ratio problems
- Express one quantity as a fraction of another, where the fraction is less than 1 or greater than 1
- Find the reciprocal of an integer, decimal or fraction
- Percentage of an amount (including of a measurement) with and without a calculator
- Percentage increase and decrease
- Finding the original amount (reverse percentage) with and without a calculator
- Work with percentages greater than 100%
- Compare two quantities using percentages
- Express one quantity as a percentage of another
- Use percentages in real-life situations e.g. price after VAT, value of profit or loss, simple interest, income tax
- Best buy
- Recipes
- Currency

- Unitary method
- Use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate
- Solve problems involving direct and inverse proportion, including graphical and algebraic representations

## Music

### Samba

This half term students will:

- Students will learn the context, theory and skills of Samba music through percussion. Developing and further enhancing skills built from Western African percussion in Year 8
- Demonstrate through verbal and practical skills, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## Physical Education

Students will be able to:

- Show imagination and innovation when performing advanced skills in football, rugby, netball, hockey, handball/basketball, badminton, fitness and aesthetic activities:
- Accurately evaluate the effectiveness of your own and/or others' team/group performances implementing appropriate improvements
- Confidently undertake leadership and officiating roles in at least 3 practical settings, showing excellent knowledge of appropriate rules / laws and effective communication skills
- Meet the strenuous exercise demands required for a range of specific activities, combining aerobic endurance, flexibility and at least 2 other components of fitness required
- Explain the importance of nutrition and hydration for success in sport

## Religious Education

In Half term 2 we consider religious views on life after death and looks at the funeral rites performed in different religions.

Pupils will;

- ✓ Develop substantive and personal knowledge on a range of ethical issues
- ✓ Develop reading for meaning skills through regular reading comprehension tasks
- ✓ Develop academic writing skills to support progression in Religious Studies and a wide variety of other subjects.

## Resistant Materials

### Robolamp and CAD

In this project students will:

- Learn about 2D design contour, laser cutter, tinker CAD
- Learn how to use equipment for each part of the project
- Use wood to make a product, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## Science

Students will be able to:

- Use patterns of reactivity to make predictions
- Link the properties and uses of a metal to its position in the reactivity series
- Explain why non-metals are placed in the reactivity series with reference to displacement by carbon and hydrogen
- Using data deduce, with reasons, which reactivity series element is suitable to perform a particular function

## Textiles

## **Project Applique**

In this project students will:

- To know how to set up a workstation and organise equipment.
- Be produce a practical piece, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organise

## Year 9 HT3

This term, the following aspects of the curriculum will be covered in your child's class:

### Art

#### Organic

Within this half term students will:

- Learn about organic (Printing, artist studies and analysis, pencil shading, colour, blending, line)
- Work in sketchbook which demonstrates all the key skills and techniques, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Drama

#### Blood Brothers

Within this half term students will:

- Learn about the key techniques and skills of performance in drama (Characters, narration, role on the wall, levels, facial expression, body language, script)
- Create practical work demonstrating the techniques and skills learnt, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### English

#### Non-Fiction: We Should all be Feminists

Students will be able to:

Independently select relevant quotations from non-fiction texts.

Identify writer's perspective and find evidence.

Express clear views about the text and write evaluatively.

Share clear views about the text to a group of students and respond to questions.

### Food Technology

#### Food Around the World

Within this half term students will:

- Produce plans for dishes from around the world.
- Use a range of techniques to create dishes that have been prepared and cooked independently with precision. Considering food safety and hygiene as well as presenting dishes to the teacher, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### French

#### Relationships

About the unit:

In this unit pupils extend their ability to express preferences, future plans, to describe people and relationships and to narrate events in the past, including a range of past tenses.

The key vocabulary for pupils to master in this unit includes character adjectives, relationship and activities verbs (see below) and special consideration is given to time markers.

Learning objectives

- Revisiting family members and description, extending character description
- Relationship verbs and expressions: to get on, to argue, to have fun, to have things in common

- Justifying opinions
- Revisiting free time activities, including technology
- Revisiting frequency phrases/adverbs
- Revisiting present tense including high frequency irregulars
- Likes/dislikes in the third person
- Time markers present
- Romantic relationship verbs : to fall in love, to get engaged, to get married, to live together, to separate, to divorce, to meet/get to know each other...
- Simple conditional expressions: j'aimerais/je voudrais + avoir/noun ; elle/il serait/aurait...
- Revisiting future time frame
- Time markers future
- Narrating events in the past, including more than one tense
- When to use imperfect
- Comparing then, now and in the future
- Time markers past
- Role-play practice: how to tackle a role-play, how to form questions
- Describing a photo (PALMs)

## Geography

### Unit 3- Climate change

In this unit the students will investigate the challenge of changing climate, its causes, the consequences of changing temperatures and what we can do to prevent it. Pupils will also consider their individual role and contribution to climate and how they can reduce their impact on global warming.

Can describe the evidence to suggest that the world's climate change.

Can explain the natural and human processes which cause climate change.

Can discuss the different impacts that climate change will have globally.

Assess the effectiveness of methods used in response to climate change.

## History

Students will be able to explain the utility of sources and identify provenance of sources. Students may include the following relevant contextual knowledge to support their explanations: International Relations 1918-39, The League of Nations, the rise of dictatorships, The Manchurian Crisis, The Abyssinian Crisis, the failure of appeasement.

## Information Technology

This is a continuation of the algorithm topic which was started in HT4 in Y7. Students recap the basic concepts of algorithms and now look at the sorting and searching features which algorithms

## Maths

- Y9HT3 Students will study
- Use and interpret algebraic notation, including:
  - $ab$  in place of  $a \times b$
  - $3y$  in place of  $y + y + y$  and  $3 \times y$
  - $a^2$  in place of  $a \times a$ ,  $a^3$  in place of  $a \times a \times a$ ,  $a^2b$  in place of  $a \times a \times b$
  - in place of  $a \div b$
  - coefficients written as fractions rather than as decimals
  - brackets
- Understand and use the concepts and vocabulary of expressions, equations, formulae, inequalities, terms and factors
- Know the definition of Sum and Product

- Collect like terms
- Simple laws of indices
- Multiply together two simple algebraic expressions, e.g.  $2a \times 3b$
- Simplify expressions by cancelling, e.g.  $\frac{2a}{2} = 2x$
- Use index notation when multiplying or dividing algebraic terms
- Expand single brackets
- Factorise - single brackets
- Functions - inputs and outputs
- Substitute numerical values into formulae and expressions, including scientific formulae
- Derive a simple formula, including those with squares, cubes and roots

## Music

### Western Classical Elements

This half term students will:

- Students will gain an appreciation of Classical Music through performing and listening to sections of Classical Pieces throughout the last 500 years. Students will also develop their knowledge of the musical elements and composing methods through listening exercises, computer technology as well as securing knowledge in the instruments of the orchestra.
- Demonstrate through verbal and practical skills, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## Physical Education

Students will be able to:

- Show imagination and innovation when performing advanced skills in football, rugby, netball, hockey, handball/basketball, badminton, fitness, athletics and aesthetic activities
- Accurately evaluate the effectiveness of your own and/or others' team/group performances implementing appropriate improvements
- Confidently undertake leadership and officiating roles in at least 3 practical settings, showing excellent knowledge of appropriate rules / laws and effective communication skills
- Meet the strenuous exercise demands required for a range of specific activities, combining aerobic endurance, flexibility and at least 2 other components of fitness required
- Successfully apply an understanding of the principles of safe and effective training to improve health and performance of themselves and others
- Explain the importance of nutrition and hydration for success in sport

## Religious Education

In half term 3 and 4 we investigate marriage and family life, looking at different kinds of families and relationships, family planning, divorce, gender identity and gender equality.

Pupils will;

- ✓ Develop substantive and personal knowledge on a range of ethical issues
- ✓ Develop reading for meaning skills through regular reading comprehension tasks
- ✓ Develop academic writing skills to support progression in Religious Studies and a wide variety of other subjects.

## Resistant Materials

### Sustainability & Industry

- In this project students will:
- Sustainability; knowledge of the 6Rs, upcycling, energy sources
- Understand industry related to manufacturing and construction
- Make a product, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## Science

Students will be able to:

- Describe combustion, thermal decomposition and oxidation, representing them as symbol equations
- Describe how a catalyst affects the rate of a reaction
- Describe the differences between an exothermic and endothermic reaction, and link these to energy changes
- When given word equations identify reactions as either combustion, thermal decomposition or oxidation.
- Classify reactions as exothermic or endothermic using data from experiments

## Textiles

### Project Applique

In this project students will:

- To be able to thoroughly evaluate your product adding photos and testing.
- To show on your plan's modifications needed
- Be produce a practical piece, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organise

This term, the following aspects of the curriculum will be covered in your child's class:

## Art

### Organic

Within this half term students will:

- Learn about organic (Printing, artist studies and analysis, pencil shading, colour, blending, line)
- Work in sketchbook which demonstrates all the key skills and techniques, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## Drama

### Dramatic Tension

Within this half term students will:

- Learn about the key techniques and skills of performance in drama (Keeping the audience hooked, audience involvement, use of emotions, blocking)
- Create practical work demonstrating the techniques and skills learnt, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## English

### Sherlock Holmes

Students will be able to:

Independently select relevant quotations from Sherlock Holmes.

Make clear points about characters' thoughts and feelings from Sherlock Holmes.

Identify relevant language and the way Sherlock Holmes is structured and make clear comments about Doyle's choices.

Make clear comments on how the context and setting creates drama in Sherlock Holmes.

Express clear views about the characters and events we are studying in Sherlock Holmes and justify opinions.

Share clear views about Sherlock Holmes to a group of students and respond to questions.

## Food Technology

### Afternoon Tea Project

Within this half term students will:

- Identify the ingredients needed to make bread and explain the function of each ingredient in the bread making process.
- Use a range of techniques to create dishes that have been prepared and cooked independently with precision. Considering food safety and hygiene as well as presenting dishes to the teacher, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## French

### The world around us/Environment

About the unit:

In this unit pupils develop their ability to express opinions and extend their knowledge about world-wide issues.

The key vocabulary for pupils to master in this unit includes environmental issues and some possible solutions, rights and vocabulary related to helping others. There is a specific emphasis on modal verbs.

### Suggested learning objectives

- Il y a... too much traffic, lots of pollution, lots of rubbish, too many factories, too much noise, green areas...
- Modal verbs + infinitives such as: save (water/energy), use (public transport/less water), recycle, reduce, reuse, buy (green/recycled products), plant, unplug, etc.
- Revisiting now and then (imperfect)
- Modal verbs: can/cannot do + infinitives such as: express oneself, wear (clothes), study, speak, play, etc.
- Avoir le droit de
- Expressing opinions and justifying them: (non) c'est juste / c'est inacceptable parce que ...
- Expressing future plans in the third person
- Vocabulary relating to volunteering, charity involvement, fund raising, etc.
- Revisiting modal verbs
- Revisiting future frame: Je veux / j'espère / je voudrais + infinitif; futur proche, etc.

### Geography

#### Unit 4- Resource management: Energy

This unit focusses on the topical issue of energy, with an opportunity for pupils to consider how the energy mix is changing and how this will continue to diversify in the future. Pupils will conclude this unit by focusing on energy production in a particular country. Assessing the impacts of this production socially, economically and environmentally.

Describe the uneven distribution of energy consumption and the reasons for this.

Explain how the global energy mix is changing and the factors which influence this.

Assess the challenges and opportunities linked to renewable energy and non- renewable energy sources.

Assess the social, economic, environmental impacts of energy production in a chosen country.

### History

Students will be able to explain the two interpretations with some information selected from the interpretations. Students may include the following relevant contextual knowledge to support their explanations: The Second World War, the evacuation at Dunkirk, The Battle of Britain, The Blitz, The Battle of Stalingrad, Pearl Harbour, Hiroshima and Nagasaki.

### Information Technology

E safety topic based around social media and online profiles/ footprints.

### Maths

- Y9HT4 Students will study
- Solve linear equations in one unknown algebraically, with unknowns on one side e.g.  $5x - 7 = 18$
- Solve linear equations which contain brackets, fractional coefficients, negative signs, negative solutions
- Substitute into a formula, and solve the resulting equation
- Perimeter of 2d shapes including composite shapes
- Solve geometrical problems on coordinate axes
- Area of triangles, parallelograms, trapezia and compound shapes
- Solve angle or perimeter problems using algebra
- Make sensible estimates of a range of measures in everyday settings
- Convert between units of measure within one system, including time
- Convert metric units to metric units

### Music

#### Western Classical Elements

This half term students will:

- Students will gain an appreciation of Classical Music through performing and listening to sections of Classical Pieces throughout the last 500 years. Students will also develop their knowledge of the musical elements and

composing methods through listening exercises, computer technology as well as securing knowledge in the instruments of the orchestra.

- Demonstrate through verbal and practical skills, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Physical Education

Students will be able to:

- Show imagination and innovation when performing advanced skills in football, rugby, netball, hockey, handball/basketball, badminton, fitness, athletics and aesthetic activities
- Demonstrate control, or fluency in a range of game situations or performance settings
- Accurately evaluate the effectiveness of your own and/or others' team/group performances implementing appropriate improvements
- Confidently undertake leadership and officiating roles in at least 3 practical settings, showing excellent knowledge of appropriate rules / laws and effective communication skills
- Meet the strenuous exercise demands required for a range of specific activities, combining aerobic endurance, flexibility and at least 2 other components of fitness required
- Be an effective role model by applying yourself in at least 2 different contexts and showing resilience to overcome setbacks
- Successfully apply an understanding of the principles of safe and effective training to improve health and performance of themselves and others
- Explain the importance of nutrition and hydration for success in sport

### Religious Education

In half term 3 and 4 we investigate marriage and family life, looking at different kinds of families and relationships, family planning, divorce, gender identity and gender equality.

Pupils will;

- ✓ Develop substantive and personal knowledge on a range of ethical issues
- ✓ Develop reading for meaning skills through regular reading comprehension tasks
- ✓ Develop academic writing skills to support progression in Religious Studies and a wide variety of other subjects.

### Resistant Materials

#### Pacman and Robolamp

In this project students will:

- Know the health & safety issues in the textile's classroom.
- Learn how to use equipment for each part of the project
- Use acrylic to make a product, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Science

Students will be able to:

- Explain the functions of the skeleton, and describe the function of antagonistic muscle pairings
- Explain how the use of recreational drugs and smoking can affect biological systems, such as during gas exchange and gestation
- Explain the respiratory system as a mechanism of breathing and gas exchange (to allow substances to diffuse)
- Compare aerobic to anaerobic respiration, and describe the situations in which they occur
- Describe how genetic material can be inherited, and the role of Watson, Crick, Wilkins and Franklin in the discovery of DNA structure

### Textiles

#### Project Applique

In this project students will:

- To gain an understanding that an area can change over time-history of Stocksbridge, to learn about Pete McKee his work and his inspiration and to understand how to analyse a design context and a design brief.
- To be able to recap stitches and settings.
- To mount up all samples into design booklet with stitch widths and lengths.
- Be produce a practical piece, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## Year 9 HT5

This term, the following aspects of the curriculum will be covered in your child's class:

### Art

#### Micro Art

Within this half term students will:

- Learn about organic (Mixed media, imagery, paint, pen, artist studies and analysis, fabric, pattern)
- Work in sketchbook which demonstrates all the key skills and techniques, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Drama

#### Practitioners

Within this half term students will:

- Learn about the key techniques and skills of performance in drama (Theory, techniques, theatre, performance\_
- Create practical work demonstrating the techniques and skills learnt, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### English

#### Relationships Poetry

Students will be able to:

Make clear comments about the way the context shapes the meaning of the poem.

Share clear views about the poem to a group of students and respond to questions.

Independently select relevant quotations from the extract.

Make clear points about characters' thoughts and feelings from the extract.

Identify relevant language and the way the extract is structured and make clear comments about the writer's choices.

Express clear views about the characters and events we are studying in the extract and justify opinions.

### Food Technology

#### Afternoon Tea Project

Within this half term students will:

- Identify the ingredients needed to make pastry and explain the function of each ingredient in the pastry making process.
- Use a range of techniques to create dishes that have been prepared and cooked independently with precision. Considering food safety and hygiene as well as presenting dishes to the teacher, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### French

#### Events

About the unit:

In this unit pupils further develop their ability to express future plans and narrate events in the past. This is a predominantly cultural unit aimed at expanding knowledge of other countries' traditions and to establish comparisons with own culture. This unit provides ample scope for adapting to suit individual department's knowledge, expertise or interest. The whole unit could include a variety of festivals and traditions from around the French-speaking world.

The key vocabulary for pupils to master in this unit includes vocabulary related to festivals, traditions and costumes; food can be revisited and extended.

#### Learning objectives

- Describing mealtimes
  - Revisiting daily routine
  - Revisiting and extending food
  - Revisiting how to express opinions, likes and dislikes
  - Role-play practice
  - Introduction to one or several festivals/traditions from French speaking countries and key vocabulary associated with them: fireworks, music band, processions, floats, parade, symbol, patron saint, bulls, Christmas vocabulary, etc.
  - Music festivals
  - Photo card practice
  - Narrating events in the past
  - Expressing future plans and preferences
  - More sophisticated comparisons and opinions
- Using « they » and « we » to establish differences/comparisons

## Geography

### Unit 4- Resource management: Energy

This unit focusses on the topical issue of energy, with an opportunity for pupils to consider how the energy mix is changing and how this will continue to diversify in the future. Pupils will conclude this unit by focusing on energy production in a particular country. Assessing the impacts of this production socially, economically and environmentally.

Describe the uneven distribution of energy consumption and the reasons for this.

Explain how the global energy mix is changing and the factors which influence this.

Assess the challenges and opportunities linked to renewable energy and non- renewable energy sources.

Assess the social, economic, environmental impacts of energy production in a chosen country.

**Students will then revise for their mock exams.**

## History

Explain 3-4 of the reasons why the Holocaust happened: anti-Semitism, fear of persecution, einsatzgruppen, concentration camps, the final solution.

## Information Technology

This topic is based around creating a promotional banner for a specific design brief.

## Maths

- Work with coordinates in all four quadrants
- Reflection and/or rotation symmetries
- Notation - point, line, vertices, edge, face, plane, parallel line, perpendicular line, polygon, regular polygon
- Types of triangles - right angles, isosceles, equilateral, scalene, right angled isosceles
- Use the standard conventions for labelling and referring to the sides and angles of triangles
- Derive and use the sum of angles in a triangle
- Types of quadrilaterals - square, rectangle, parallelogram, trapezium, kite, rhombus
- Estimate size of angles and measure angles using a protractor
- Angles at a point, on a straight line, vertically opposite angles, , angles in a triangle
- Measure line segments and angles in geometric figures
- Interior and exterior angles, angle sums
- Understand a proof that the exterior angle of a triangle is equal to the sum of the interior angles at the other two vertices
- Explain why some polygons fit together and others do not
- Alternate and corresponding angles on parallel lines
- Solve missing angle problems, giving reasons for answers
- Circle definitions - centre, radius, chord, diameter, circumference
- Use Circumference of a circle =  $2\pi r = \pi d$  and area of a circle =  $\pi r^2$
- Volume of cuboids and other right prisms (including cylinders)
- Estimate surface areas by rounding measurements to 1 significant figure
- Sketch nets of cuboids and prisms

## Music

### Dance Music

This half term students will:

- Knowledge of Dance music genre. Live / Electronic performance / arrangement. Students will learn knowledge of sonority in regard to the sounds of electronic instruments as well as bass lines riffs and the use of texture. Either performing on a keyboard or using a DAW software.
- Demonstrate through verbal and practical skills, including a formal practical assessment piece

- Complete a fluency test on key words from the knowledge organiser

## Physical Education

Students will be able to:

- Show imagination and innovation when performing advanced skills in cricket, rounders, softball, tennis, fitness, athletics and aesthetic activities
- Demonstrate control, or fluency in a range of game situations or performance settings
- Employ advanced decision-making skills in a at least 3 game situations or dynamic routines/sequences
- Accurately evaluate the effectiveness of your own and/or others' team/group performances implementing appropriate improvements
- Confidently undertake leadership and officiating roles in at least 3 practical settings, showing excellent knowledge of appropriate rules / laws and effective communication skills
- Meet the strenuous exercise demands required for a range of specific activities, combining aerobic endurance, flexibility and at least 2 other components of fitness required
- Be an effective role model by applying yourself in at least 2 different contexts and showing resilience to overcome setbacks
- Successfully apply an understanding of the principles of safe and effective training to improve health and performance of themselves and others
- Explain the importance of nutrition and hydration for success in sport

## Religious Education

In half term 3 and 4 medical ethics are examined from a religious and secular point of view. Issues including abortion, fertility treatment, euthanasia, suicide and testing on animals for cosmetic and medical purposes will all be discussed and explored.

Pupils will;

- ✓ Develop substantive and personal knowledge on a range of ethical issues
- ✓ Develop reading for meaning skills through regular reading comprehension tasks
- ✓ Develop academic writing skills to support progression in Religious Studies and a wide variety of other subjects.

## Resistant Materials

### Robolamp and CAD

In this project students will:

- Learn about 2D design contour, laser cutter, tinker CAD
- Learn how to use equipment for each part of the project
- Use wood to make a product, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

## Science

### GCSE Content Starts

Describe solids, liquids and gases in terms of their particle arrangements and explain their properties

- Calculate density of an object
- Explain the difference between heat and temperature
- Calculate specific latent heat and specific heat capacity
- Compare energy values of different materials depending on their particle arrangements
  
- Compare animal, plant and bacterial cells
- Explain how the main sub-cellular structures, including the nucleus, cell membranes, mitochondria, chloroplasts in plant cells and plasmids in bacterial cells are related to their functions.
- Understand that bacterial cells are much smaller in comparison.
- Demonstrate an understanding of the scale and size of cells and be able to make order of magnitude calculations, including the use of standard form.

- Use estimations and explain when they should be used to judge the relative size or area of sub-cellular structures.
- Understand that cells may be specialised to carry out particular functions.
- Explain how the structure of different types of cell relates to their function in a tissue, an organ or organ system, or the whole organism.
- Explain the importance of cell differentiation.
- Understand how microscopy techniques have developed over time.
- Explain how electron microscopy has increased understanding of sub-cellular structures.
- Carry out calculations involving magnification, real size and image size using the formula:  $\text{magnification} = \frac{\text{size of image}}{\text{size of real object}}$ .
- Express answers in standard form where appropriate.

## Textiles

### Project Applique

In this project students will:

- To know how to set up a workstation and organise equipment.
- Be produce a practical piece, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organise

## Year 9 HT6

This term, the following aspects of the curriculum will be covered in your child's class:

### Art

#### Micro Art

Within this half term students will:

- Learn about organic (Mixed media, imagery, paint, pen, artist studies and analysis, fabric, pattern)
- Work in sketchbook which demonstrates all the key skills and techniques, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Drama

#### Practitioners

Within this half term students will:

- Learn about the key techniques and skills of performance in drama (Theory, techniques, theatre, performance\_
- Create practical work demonstrating the techniques and skills learnt, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### English

#### Prose: Short Stories

Students will be able to:

Independently select relevant quotations from text.

Make clear points about characters' thoughts and feelings from text.

Identify relevant language and the way the texts are structured and make clear comments about Shakespeare's choices.

Make clear comments on how the context and setting creates tension in the text.

Express clear views about the characters and events we are studying in text and justify opinions.

### Food Technology

#### Afternoon Tea Project

Within this half term students will:

- Identify the ingredients needed to make cakes and explain the function of each ingredient in the cake making process.
- Use a range of techniques to create dishes that have been prepared and cooked independently with precision. Considering food safety and hygiene as well as presenting dishes to the teacher, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### French

Students will revise all previous content from Year 9 and will complete the United Learning end of year assessment.

- Town
- Jobs
- Events/festivals
- Environment
- Relationships
- Present tense
- Future tense
- Past tense with –ER verbs

- Past tense
- Irregular past tense
- Conditional
- Imperfect
- Opinions
- Reasons
- Connectives
- Intensifiers
- Time phrases

### Geography

Students will take part in onsite fieldwork on microclimates, building on their understanding of energy and climate change

### History

Students will be able to explain civil rights cases from 1945 onwards. Segregation in America, apartheid in South Africa and the struggle for independence in India.

### Information Technology

This topic will be a present, review and evaluate project when students will have the chance to present their promotional banner to their peers, get feedback, evaluate and improve overall design.

### Maths

- Generate terms of a sequence from either a term-to-term or a position-to-term rule
- Write the term-to-term definition of a sequence in words
- Find the  $n$ th term of a linear sequence e.g. 3, 5, 7, 9...
- Recognise and use sequences of triangular, square and cube numbers
- Use the  $n$ th term of an arithmetic sequence to decide if a given number is a term in the sequence, or find the first term over a certain number
- Use the  $n$ th term of an arithmetic sequence to find the first term greater/less than a certain number
- Describe translations as 2D vectors
- Translate a given shape by a vector

### Music

#### Band Skills

This half term students will:

- Students are given a piece of Rock music in which they must work as an ensemble showing rehearsal and performance skills. Skills should show a progression of learning more advanced chords and drum patterns as well as demonstrating ensemble skills such as timing, leadership, and determination. These are important skills for BTEC music in Year 1-
- Demonstrate through verbal and practical skills, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Physical Education

Students will be able to:

- Show imagination and innovation when performing advanced skills in cricket, rounders, softball, tennis, fitness, athletics and aesthetic activities
- Demonstrate control, or fluency in a range of game situations or performance settings
- Employ advanced decision-making skills in a at least 3 game situations or dynamic routines/sequences
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- ✓ Develop reading for meaning skills through regular reading comprehension tasks
- ✓ Develop academic writing skills to support progression in Religious Studies and a wide variety of other subjects.

### Resistant Materials

#### Sustainability & Industry

- In this project students will:
- Sustainability; knowledge of the 6Rs, upcycling, energy sources
- Understand industry related to manufacturing and construction
- Make a product, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser

### Science

#### GCSE Content Continues from HT5

Students will be able to:

- Describe how our understanding of the structure of the atom has changed over time
- Describe the current model linked to atomic structure and compare subatomic particles
- Safely carry out practical techniques to separate mixtures
- Safely make a salt using a standard practical technique
- Describe how the periodic table was developed
- Interpret key information from the periodic table e.g. how many electrons an element has
- Describe an isotope
- Calculate relative atomic mass of an isotope sample
- Explain why the reactivity of group 1 elements increases down the group and describe this through the reaction with water
- Explain why the reactivity of group 7 elements decreases down the group and link this to determining the products of a displacement reaction

### Textiles

- **Project Applique**
- In this project students will:
- To be able to thoroughly evaluate your product adding photos and testing.
- To show on your plan's modifications needed
- Be produce a practical piece, including a formal practical assessment piece
- Complete a fluency test on key words from the knowledge organiser