



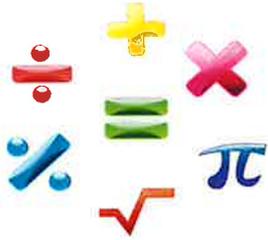
# Our Lady's High School



## Options Booklet 2022



Created by S6 Subject  
Ambassadors



# MATHS



YOUR MATHS SUBJECT AMBASSADORS IMRAN ALI AND MADISON ADAMS

## National 4 Mathematics

The National 4 Course tests you on your:

- Numeracy
- Mathematical Relationships
- Expressions and Formulae

## National 5 Mathematics

The National 5 course assesses your:

- Numerical skills
- Algebraic skills
- Geometric skills
- Trigonometric skills
- Statistical skills

## Higher Mathematics

There is a large jump between the National 5 and Higher courses. You learn lots of new content including:

- Algebraic and trigonometric skills
- Geometric skills
- Calculus skills
- Reasoning skills

## Advanced Higher and Linked Subjects

In S6 you have the chance to study maths at a more advanced level where you learn:

- Calculus skills
- Algebra, proof and number theory
- Matrices, vectors and complex numbers

## Furthering your Knowledge of Mathematics

- Short courses available at University – these are free and online
- Mathematics can help if you want to go to University as it links to courses such as:
  - Statistics (data analysis and presentation)
  - Psychology, Biology
  - Engineering
  - Chemical, Mechanical, Electrical Engineering

## National 3/4 Applications of Mathematics:

Applications of Mathematics is a subject that is a bit different. This class will further your skills and understanding of:

- Finance
- Statistics and risk analysis
- Number, Money and Measure
- Interpreting data

## Skills Gained from Mathematics

Through studying mathematics you obtain skills which are useful in every day life including:

- Critical thinking
- Problem solving
- Time management
- Communication skills
- Independence

## Top 5 Tips for Success

Mathematics can be a tricky subject so here are our tips on how to succeed:

- Make neat notes and highlight important information
- Use the formula sheet when you can to avoid silly mistakes
- Practice regularly using past paper questions
- Use study resources provided by your teachers
- Always attempt and try to finish a question – you can pick up extra marks for partial questions



# FRENCH

Subject Ambassadors: Monica and Mya

## N4/5 & Higher Topics

Society  
Culture  
Education  
Employability

Friends, Family, Lifestyle  
Holidays  
Subjects, School, Teachers  
Part-time Job, Dream Job

## Skills Gained By Learning French

- Listening
- Communication
- Problem Solving
- Creative Thinking
- Improved Memory

## Subjects Linked To French

Spanish  
English  
Business  
History  
Travel & Tourism

## Top 5 Tips For Learning French

1. Revise verb endings and tenses regularly
2. Practise listening through TV shows, music, past papers
3. Practise your pronunciation of words
4. Attempt reading past papers without a dictionary first
5. Go over new vocabulary regularly

# Chemistry ? ? ?

Subject Ambassadors - Allannah Littlejohns + Brendan McCarry

## **National 5:**

- Chemical Changes and Structure
- Natures Chemistry
- Chemistry in Society

## **Higher :**

- Chemical Changes and Structure
- Natures Chemistry
- Chemistry in Society
- Researching Chemistry



## **Advanced Higher:**

- Inorganic Chemistry
- Physical Chemistry
- Organic Chemistry and Instrumental Analysis
- Researching Chemistry

## **Skills gained from studying chemistry:**

Through studying chemistry you work on skills that will benefit you in all areas of your education. Experiments help you work on your **teamwork**, **leadership** and **organisation skills**. Chemistry also requires a lot of **problem solving** this is a skill you will practice frequently. **Numeracy** skills are also used throughout Chemistry in the calculations that are part of the course. Studying Chemistry opens so many doors when applying for University courses and jobs as it utilises so many crucial skills and shows good knowledge and understanding.

## **Our top tips for success in chemistry:**

- ✓ Keep your notes organised and colour coordinated by subtopics
- ✓ Complete homework on time and get it corrected to see if you're on track and understand the content
- ✓ Use 'Miss Adams chemistry' on YouTube, BBC Bitesize and scholar
- ✓ Complete past papers from the SQA website to get to know the wording of the questions and put your knowledge into practice
- ✓ Ask for help when you need it so you can keep progressing and don't fall behind

# ? History ?

Subject ambassadors – Lucy Morrison and Flynn Malcolm

Nat 4/5	Higher
<p>At National 4/5 history you will cover 3 topics:</p> <ul style="list-style-type: none"><li>- The Era of the Great War</li><li>- The Atlantic Slave Trade</li><li>- Hitler and Nazi Germany</li></ul> <p><b>All topics will test knowledge and skills questions</b></p>	<p>At Higher you will study 3 different topics:</p> <ul style="list-style-type: none"><li>- Migration and Empire,</li><li>- Britain, 1850's-1950's</li><li>- USA – 1918-68</li></ul> <p><b>You will be tested on essay writing and skills questions.</b></p>



## Top five tips for success:

- Always follow the structures given to support you.
- Link to the question in every point in your answer
- Keep your notes organised and separated into different topics
- Timed practise is the best way to prepare for any assessment
- Take time to understand and learn the content of the course first.

## Skills gained from History:

- Greatly develops your analytical and problem-solving skills through answering different question types.
- Your time management greatly improves as you try timed practise.
- History strengthens your persuasive skills as you argue your point across in questions and essays.
- You become more aware and knowledgeable of the world around you by studying the wide range of topics

History is a very useful subject which could help allow you to study Politics and other Social Subjects in S6. It also relates to a range of Degrees at University such as History, Law and Journalism and even careers in Teaching or the Police Force.

# GRAPHIC *communication*

• • EILIDH HARVEY & MARK MCKAY • •

## SKILLS GAINED THROUGH GRAPHICS

COMMUNICATION  
TIME MANAGEMENT  
CREATIVITY  
PLANNING  
PATIENCE  
RESILIENCE



## S6 SUBJECTS LINKED TO GRAPHICS



ART & DESIGN  
MATHEMATICS  
COMPUTING SCIENCE

## COURSE CONTENT COVERED AT HIGHER LEVEL

CAD TECHNIQUES  
INFLUENCE OF DIGITAL TECH  
DRAWING CONVENTIONS  
DTP FEATURES  
DESIGN PRINCIPLES



**H ASSIGNMENT – 8 HOURS**  
**50 MARKS (36% TOTAL)**

## CONTENT COVERED AT NATIONAL 4 & NATIONAL 5

INFLUENCE IN SOCIETY  
PICTORIAL VIEWS – 3Ps  
LAYOUT DESIGN ELEMENTS  
TECHNICAL DRAWING STANDARDS

**N5 ASSIGNMENT – 8 HOURS**  
**40 MARKS (33% TOTAL)**



## TOP FIVE TIPS FOR SUCCESS

STUDY MORE THAN  
YOU THINK YOU  
NEED TO  
CREATE VISUAL  
NOTES  
FULLY MAKE USE  
OF ASSESSMENT  
TIME  
MEMORISE ALL  
LINE TYPES  
SEEK OTHERS'  
THOUGHTS ON  
YOUR WORK



## SPANISH

SUBJECT AMBASSADORS- LIAM SHARP & ALIX ANDERSON



### NATIONAL 4/5 & HIGHER TOPICS

- SOCIETY - FAMILY AND FRIENDS
- LEARNING - LEARNING IN CONTEXT
- EMPLOYABILITY - JOBS
- CULTURE - TRIPS AND OTHER COUNTRIES
- PAST, PRESENT & FUTURE VERBS

### LINKED SUBJECTS

- FRENCH
- ENGLISH

### SKILLS GAINED

- COMMUNICATION
- CREATIVITY
- CULTURAL KNOWLEDGE
- MEMORY

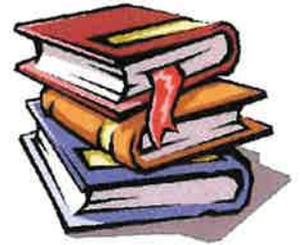
### TIPS FOR SUCCESS

- EXPOSE YOURSELF TO SPANISH (BOOKS, TV & MOVIES, MUSIC)
- REFRESH YOURSELF ON VOCABULARY
- ENSURE YOU KNOW HOW TO USE A SPANISH DICTIONARY
- TRY TO AVOID GOOGLE TRANSLATE





# English



Subject Ambassadors Ellie & Jodie

## Topics covered in Nat4/5

In English the main topics covered are:

- RUAE (Close Reading)
- Critical Essay
- Set/Scottish Text
- Portfolio (Creative and Discursive writing)

## Top 5 tips for success in English

- Have an organised folder
- Do past papers
- Make Flashcards
- Read over your work
- Try your hardest

## What's involved in AH?

At AH you do:

- Critical Essay – A comparative critical essay between two or more pieces
- Textual Analysis – A critical essay written on an unseen piece of writing
- Portfolio – Two pieces of writing that are around 1500
- Dissertation – An essay on a topic of your choosing with a book or two books of your choosing that is around 4000 words

## Topics covered in Higher

At Higher English is very similar to Nat5, the topics covered are:

- RUAE (Close Reading)
- Critical Essay
- Set/Scottish Text
- Portfolio (Creative and Discursive writing)

## Skills gained from English

- Analytic skills
- Communication skills
- Organisational skills
- Creativity skills

# PE

## Subject Ambassadors – Owen and Jessica

### Topics covered in N4 and N5

Physical Education consists of 2 parts that interlink: Performance Skills; and Factors Impacting on Performance. **Pupils are expected to complete a portfolio not an written exam and will be assessed on 2 practical performances.**

In the 'Performance Skills' aspect pupils will select, use, demonstrate and adapt skills, make decisions and evaluate performance.

In the 'Factors Impacting on Performance' section pupils will demonstrate knowledge and understanding of how physical, mental, emotional and social factors impact on performance.

Pupils will also develop knowledge of methods for improving performance. This knowledge will develop the pupils' ability to plan for, record, monitor and reflect on performance development.

### Topics covered in higher

#### Performance Skills

In this Unit, pupils will develop a broad range of complex movement and performance skills through a range of physical activities.

They will also develop their knowledge and understanding of how these skills combine.

#### Factors Impacting on Performance

In this Unit, pupils will develop their knowledge and understanding of the factors that impact on personal performance in physical activities. You learn how mental, emotional, social, and physical factors can influence your performance.

#### The Exam

Your assessed Performance will be worth 60 marks (50% of the total marks available for the Course assessment).

The question paper will have 50 marks (50% of the total marks available for the Course assessment).

You are given 2 hours and 30 minutes to complete the exam question paper.

#### After Higher PE

There is no Advanced Higher PE but some pupils may choose Leadership in S6

### Skills gained through studying PE

- Communication
- Motivation
- Confidence
- Social skills

### Owen and Jessica's top tips

1. Always bring your kit
2. Always give 100% effort
3. The more effort you put in the more you will get out of PE
4. Theory is as important as practical
5. HAVE FUN

## PHYSICAL EDUCATION



# GEOGRAPHY

Subject Ambassadors:

Liam & Ellie



## Other Subjects in S6 only

A brand-new subject for Geography and Biology students:

Higher Environmental Science

Topics Include:

- The Geosphere
- The Hydrosphere
- The biosphere
- The Atmosphere
- Global Challenges
- Food
- Water
- Energy
- Waste Management
- Climate Change

## Top 5 tips

- Learn Model Answers
- Use Revision Materials
- Listen in class
- Prepare for timed questions
- Practise your timing



## Topics covered in N4/N5

- Weather System
- Glaciated upland landscapes
- Coastlines of erosion and deposition
- Upland limestone landscapes
- Rivers and Valleys
- Population, distribution, growth and change
- Urban environments
- Rural environments
- Climate change
- Natural regions
- Environmental Hazards
- Trade and globalisation
- Tourism
- Health

## Topics covered in Higher

- Atmosphere
- Hydrosphere
- Lithosphere
- Biosphere
- Population
- Rural
- Urban
- River basin management
- Health
- Global climate change
- Mapping skills
- Using numerical and geographical data
- Research and fieldwork skills

# PHYSICS

Alex Peters & Katie Shearer

## Topics Covered at Nat 4 and Nat 5

### National 4:

- ❖ Dynamics and Space
- ❖ Electricity and energy
- ❖ Waves and radiation

### National 5:

- ❖ Dynamics
- ❖ Space
- ❖ Electricity
- ❖ Properties of matter
- ❖ Waves
- ❖ radiation

## Topics Covered at Higher

- ❖ Particles and waves
- ❖ Electricity
- ❖ Our dynamic universe

## Skills you can gain

- ❖ Problem solving
- ❖ Reasoning
- ❖ Data Analysis
- ❖ Numeracy
- ❖ Lab Skills
- ❖ Communication
- ❖ Visualisation

## Top 5 Tips for Success In Physics

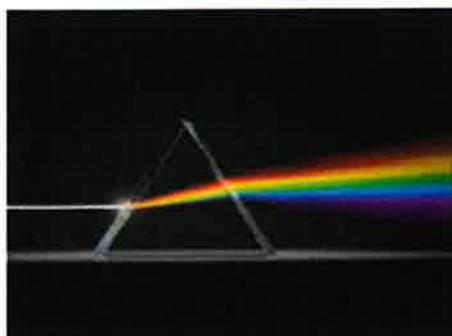
1. Always do your homework
2. Make sure to ask lots of questions
3. Engage during class time
4. Do past papers to test your knowledge
5. Practice your maths skills

## Subjects Linked to Physics

- ❖ Mathematics
- ❖ Lab Skills
- ❖ Environmental Science

## Topics Covered at Advanced Higher

- ❖ Rotational motion and astrophysics
- ❖ Quanta and waves
- ❖ Electromagnetism
- ❖ Units, prefixes and uncertainties





## **DRAMA**



**Subject Ambassadors: Katie Cassidy and Heather Tracey**

### **N4/5 Topics**

- **Production Skills**
- **Performance**
- **Creating drama**

### **Higher Topics**

- **Section 1 - Men Should Weep Essay**
- **Section 2 - Men Should Weep Questions**
  - **Section 3 - Antigone Essay**
    - **Performance**

### **Linked Subjects**

- **English**
- **Music**
- **Media Studies**

### **Skills Gained**

- **Creative Thinking**
- **Communication**
  - **Confidence**
- **Problem Solving**

### **Tips for Success**

- **Ask teachers for direction**
- **Prepare well for performance**
  - **Don't stress too much**
  - **Look over concepts often**
- **Be Confident in your abilities!**

# Art +

subject ambassadors:

Maddie Brown \_\_\_\_\_

Rosie Boyce \_\_\_\_\_

# Design

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SKILLS GAINED  
THROUGH OUR  
SUBJECT:

- creativity
- problem solving
- organization
- self-expression
- analysis \_\_\_\_\_

TOP FIVE TIPS FOR  
SUCCESS IN OUR SUBJECT:

- don't be afraid to experiment!
- be persistent + don't give up!
- practice! practice! practice!
- don't be afraid to ask for help! \_\_\_\_\_
- have fun! \_\_\_\_\_

WHAT IS \_\_\_\_\_  
COVERED IN \_\_\_\_\_  
EACH YEAR? \_\_\_\_\_

N5/HIGHER \_\_\_\_\_

N4

- Unit 1: Expressive with Critical Activity
- Unit 2: Design with Critical Activity
- Practical Activity

- Unit 1: Expressive with Critical Activity
- Unit 2: Design with Critical Activity
- Expressive Folio + Design Folio

ADV HIGHER

- choose between creating an expressive or design portfolio
- write a critical analysis + evaluation
- no traditional exam

# Music: Heather Stirling and Sheridan Townsley



## N4/5 Music Topics

Practical Work {Instruments}

Theory Work {Listening}

Composition



## Higher Music

Practical Work {Instruments}

Theory Work {Listening}

Composition

## Linked Subjects

Art and Drama and Practical cookery are other practical based subjects.

## Skills

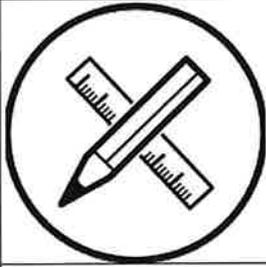
**Determination-** By practising your instrument you are showing that you are determined to improve.

**Resilience-** It can be hard to practise when you feel stuck on your music pieces which will build on your resilience.

**Patience-** This subject is very rewarding, but it takes a lot of time practise and effort.

## Tips:

- Revise Music concepts at home to understand the definition, also making a playlist on YouTube with the concepts so you can listen to them so that in class it is easier to identify.
- Make sure to play your instruments at home as there isn't enough time in class to perfect your piece. If you don't have the instruments at home, you may be able to borrow one from the music department.
  - Make sure to bring your music to class so you can practise during class time.
- If you take part in lessons in school remember to turn up to them so your instructor can help you improve.
- Try your best it takes time to perfect the pieces you play, remember its ok to make mistakes, and most importantly enjoy!



# Design and Manufacture Ambassadors Orla Kelly and Gerry Bizas

<p><b>Topics Covered in N4/5</b></p>	<ul style="list-style-type: none"> <li>• Producing a Specification</li> <li>• Generating initial ideas</li> <li>• Exploring ideas</li> <li>• Refining Ideas</li> <li>• Applying knowledge and understanding of material and assembly process</li> <li>• Applying knowledge and understanding of design</li> <li>• Applying graphic techniques</li> <li>• Applying modelling techniques</li> <li>• Producing a plan for commercial manufacturer</li> </ul>
<p><b>Topics Covered In Higher</b></p>	<ul style="list-style-type: none"> <li>• Researching and evaluating existing product types</li> <li>• Selecting and using a range of research techniques and evaluating their usefulness</li> <li>• Selecting and applying a range of idea-generation techniques</li> <li>• Writing a detailed specification based on research</li> <li>• Applying a range of creative design skills when refining and resolving product design tasks that cover key design challenges</li> <li>• Selecting and using graphic techniques to visually represent design solutions, justifying the choice of techniques</li> </ul>
<p><b>Other subjects that are linked in s6</b></p>	<ul style="list-style-type: none"> <li>• Practical Woodwork</li> <li>• Graphic communication</li> </ul>
<p><b>Skills gained through studying this subject</b></p>	<ul style="list-style-type: none"> <li>• Confidence</li> <li>• Independence</li> <li>• Creativity</li> <li>• Innovation</li> <li>• Precision</li> </ul>
<p><b>Top 5 tips for success in this subject</b></p>	<ol style="list-style-type: none"> <li>1. Organise your class materials properly</li> <li>2. Set goals</li> <li>3. Try and find a study method that suits you best</li> <li>4. Test yourself</li> <li>5. Use flash cards</li> </ol>

# MODERN



# STUDIES

Subject Ambassadors -Olivia Togher & Nicholas Colella

## TOPICS COVERED IN N4/5

- Crime and law
- Democracy in the UK
- Poverty in Africa

## WHAT S6 SUBJECTS ARE LINKED TO MODERN STUDIES?

- Politics
- History

## TOP 5 TIPS FOR SUCCESS

- Study the content
- Know your examples and statistics
- Practice in advance of timed exercises/work on timing overall
- Use flash cards
- Find what study method works best for you

## TOPICS COVERED IN HIGHER

- Social Inequality – Poverty and Ill Health
- Democracy in the UK
- Poor Development in Africa

## WHAT SKILLS ARE GAINED IN MODERN STUDIES?

- Time Management
- Analytical Skills
- Research skills
- Critical Thinking
- Communication skills and how to work well in a team



# BIOLOGY

Ambassadors – Roksana Putowska and Daniel Shaw



## Topics covered in N4/5.

Cell Biology  
Multicellular Organisms.  
Life on Earth.

## Topics covered in Higher

DNA and the genome  
Metabolism and Survival  
Sustainability and Interdependence

## Subjects linked in S6.

Chemistry  
Physics  
Maths.

## Skills gained through studying biology

Research + Analysis skills  
Problem Solving Skills  
Lab skills

## Top tips for success

- Attempt past papers regularly
- Read over and make notes as you go through topics in class
- We recommend flash cards and mind maps!
- Ask for help whenever you need it
- We would advise to purchase the How to Pass book
- Check out resources available online



# COMPUTING SCIENCE

Subject Ambassadors -  
Calum Mackenzie and Jay Monaghan



## Topics covered in N4/5:

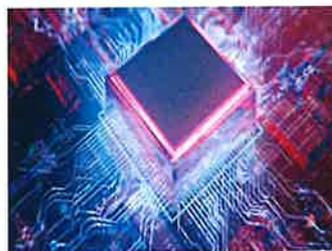
- ✓ Software Design and Development - Learn programming (Python) and how to solve problems.
- ✓ Database Design and Development - Learn how to work with databases. You are taught how to search through them and create queries.
- ✓ Web Design and Development - Learn how websites work and how to make use of HTML to create your own website.
- ✓ Computer Systems - Learn how computers work and how the different parts inside are used in day-to-day functions.

## Content covered in Higher:

- ✓ Software Design and Development - Learn more complex programming and tackle more difficult problems. You will also continue with Python, allowing you to tackle more substantial tasks and solve more challenging programs.
- ✓ Database Design and Development - Increase your knowledge of how to work with databases. You will be taught how to search through large amounts of data from external sources and create queries to alter data.
- ✓ Web Design and Development - You will continue to use HTML to create more intricate websites with larger amounts of information and add interactivity to your own website.
- ✓ Computer Systems - Learn more about how computers work, the parts of a computer, the environmental implications of computer use and the security risks and precautions taken with a computer.

## Skills gained from the subject:

- Problem-solving
- Resilience
- Creativity
- Critical thinking
- Analytical skills



## 5 tips to succeed:

- 1 Keep up on homework assigned.
- 2 Ask for help from your teacher and from your classmates.
- 3 Don't get caught up on an error - the solution will come eventually.
- 4 Practice programming at home.
- 5 Study in small amounts at a time over a long period of time on the lead up to exams and tests - not the day before!!

Other subjects related to Computing Science, that you may choose are Administration and IT and Games and Web Design.



# BUSINESS MANAGEMENT

**Subject Ambassadors:  
Liam Wilson and Lucy McNee**



- Types of Business
- Sources of Finance
- Objectives
- Customer Satisfaction
- CSR
- Stakeholders
- Business Environment
- Functional Depts/Relationships
- Location
- Marketing
- Operations
- HRM



Understanding Business  
Marketing  
Operations  
HRM  
Finance

Higher Business Management follows much the same outline as N5 but goes into a lot more detail.

## Skills Involved in Business

- Allows you to understand the key functions of a business
- Analysing information
- Researching information
- Decision making
- Problem solving
- Planning

## Top Tips for Success

- Make sure you read the question paper.
- Know your command words.
- Practice past papers (these will help you a lot with exam style questions).
- Have organised notes.
- Study and concentrate in class and at home.

## careers using business

<ul style="list-style-type: none"> <li>buying</li> <li>civil service</li> <li>marketing</li> <li>procurement</li> <li>clerical work</li> <li>public relations</li> <li>manufacturing</li> <li>local government</li> <li>importing/exporting</li> <li>hospitality management</li> </ul>	<ul style="list-style-type: none"> <li>banking</li> <li>accounting</li> <li>administration</li> <li>advertising</li> <li>economics</li> <li>credit control</li> <li>entrepreneurship</li> <li>systems analysis</li> <li>office management</li> <li>transport and logistics</li> </ul>	<ul style="list-style-type: none"> <li>insurance</li> <li>bookkeeping</li> <li>retail and sales</li> <li>human resources</li> <li>call centre work</li> <li>industrial relations</li> <li>quantity surveying</li> <li>business development</li> <li>property management</li> <li>health service management</li> </ul>
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# ADMINISTRATION & IT

**Subject Ambassadors:**  
**MOLLY LAVERY and TARA CURRAN**



Word



Excel



PowerPoint



Access



Publisher



Outlook

## TOPICS COVERED IN N4/5

**S3 -**

**Word Processing** - Paragraphs and Notices, Memorandums, Letterheads, Business Letters, Tables and Forms, Itineraries

**Spreadsheets** - Formulas, Graphs, Charts, IF Statements

**Databases** - Tables, Queries, Reports, Forms

**Theory** - Role of Administrative Assistant, Customer Care, Security of People, Property and Information, Health and Safety

**S4 -**

**Electronic Diary**

**E-mail**

**Internet**

**Powerpoint**

**Advanced Spreadsheet**

**Advanced Databases and Mail Merge**

**Advanced Word Processing**

**Theory** - Electronic Communication, File Management

## TOPICS COVERED IN HIGHER

**S5/6 -**

**Word Processing** - Bookmarks, Footnotes/Endnotes, Comments, Watermarks, Cross References, Styles and Table of Contents, Reports, Newsletters, Tables, Forms, Mail Merge

**Excel Spreadsheets** - Pivot Tables, Multiple IF Statements, Advanced Formulas and Functions, Conditional Formatting, Sorting, Grouping and Filtering, Graphs and Charts

**Databases** - Filtering and Querying, Aggregate Formulas, Forms, Reports, Queries, Calculations, Groupings, Tables

**Theory** - Time and Task Management, Teams, Legislation, IT and Working Practices, Customer Service, Communication, Meetings,

**Electronic Diary**

**E-mail**

**Internet**

**Powerpoint**

## **WHAT OTHER SUBJECTS DOES ADMINISTRATION & IT RELATE TO??**

Many pupils who study Administration and IT might choose to study any other subject.

The skills gained in Administration and IT will also benefit you in nearly all subjects and future careers.

## **SKILLS YOU GAIN -**

**IT Skills**

**Numeracy Skills**

**Time Management Skills**

**Organisational Skills**

**Researching Skills**

**Problem-Solving Skills**

**Communication Skills**

**Listening Skills**