





The Prescot School Subject Overview for

Computing (Yr.7)

1 Course/Subject introduction

Throughout the year a series of units are delivered that will develop the skills required for success and progression in Key stage 3. Alongside this, opportunities will be given to explore and discover. computing in a variety of ways and activities. All pupils will be regularly giver Head of Department: reflect and review on their learning through the use of retrieval activities that and build on confidence within specific topic areas in computing. Building on primary school we will also look at building skills with the intention of providi required skills for Key Stage 4 and GCSEs.

Mr J. Worrall

Number of lessons per fortnight for Key Stage 3: 2

2 Course/Subject structure

Pupils will explore concepts and master skills in the following topic areas along with opportunities to review and reflect on their learning through subject knowledge organisers, unit/topic and formal assessments.

Term 1	File management, Hardware, Software
Term 2	Binary numbers and Spreadsheets
Term 3	Databases, Networks and programming with Scratch

Formal assessments will take place throughout the year and pupils will be given opportunities to develop revision skills and exam techniques in order to help build strategies to develop resilience. After each formal assessment all pupils will be given in-depth feedback that celebrates areas of success and help identify areas for future development.

3 Recommended texts or websites to support home learning

www.bbc.co.uk/bitesize https://scratch.mit.edu/ https://hourofcode.com/uk/learn

4 Specialist equipment/materials required if applicable.

A computer at home would be beneficial although not a pre requisite.

In class we recommend that every pupil has at least a pencil, pen and their planner. Other stationary is welcome and folders etc will be provided.



The Prescot School Subject Overview for

Computing (Y. 8)

1 Course/Subject introduction

Throughout the year a series of units are delivered that will develop the skills required for success and progression in Key stage 3. Alongside this, opportunities will be given to explore and discover

computing in a variety of ways and activities. All pupils will be regularly given reflect and review on their learning through the use of retrieval activities that and build on confidence within specific topic areas in computing. Building on primary school we will also look at building skills with the intention of providir required skills for Key Stage 4 and GCSEs.

Head of Department:

Mr J. Worrall

Number of lessons per fortnight for Key Stage 3: **2**

2 Course/Subject structure

Pupils will explore concepts and master skills in the following topic areas along with opportunities to review and reflect on their learning through subject knowledge organisers, unit/topic and formal assessments.

Term 1	Flowcharts and pseudocode, The CPU and storage devices
Term 2	Websites, programming a simple webpage using HTML and databases
Term 3	Binary logic, logic gates, programming with Python

Formal assessments will take place throughout the year and pupils will be given opportunities to develop revision skills and exam techniques in order to help build strategies to develop resilience. After each formal assessment all pupils will be given in-depth feedback that celebrates areas of success and help identify areas for future development.

3 Recommended texts or websites to support home learning

www.bbc.co.uk/bitesize https://www.python.org/

4 Specialist equipment/materials required if applicable.

A computer at home would be beneficial although not a pre requisite.

In class we recommend that every pupil has at least a pencil, pen and their planner. Other stationary is welcome and folders etc. will be provided.



The Prescot School Subject Overview for

Computing (Y. 9)

1 Course/Subject introduction

Throughout the year a series of units are delivered that will develop the skills required for success and progression in Key stage 3. Alongside this, opportunities will be given to explore and discover computing in a variety of ways and activities. All pupils will be re

opportunity to reflect and review on their learning through the use of retr develop retention skills and build on confidence within specific topic areas Mr J. Worrall on the skills developed in primary school we will also look at building skill providing an insight into the required skills for Key Stage 4 and GCSEs. TH Number of lessons per fortnight incorporate work leading towards KS4 options such as Business Studies a vour child a taste of life after KS3.

Head of Department:

for Key Stage 3: 2

2 Course/Subject structure

Pupils will explore concepts and master skills in the following topic areas along with opportunities to review and reflect on their learning through subject knowledge organisers, unit/topic and formal assessments.

Term 1	Systems architecture and enterprise
Term 2	Multimedia project, The CPU and storage
Term 3	Programming with Python, Greenfoot and HTML. Enterprise project

Formal assessments will take place throughout the year and pupils will be given opportunities to develop revision skills and exam techniques in order to help build strategies to develop resilience. After each formal assessment all pupils will be given in-depth feedback that celebrates areas of success and help identify areas for future development.

3 Recommended texts or websites to support home learning

www.bbc.co.uk/bitesize https://www.python.org/ https://www.greenfoot.org/doc

4 Specialist equipment/materials required if applicable.

A computer at home would be beneficial although not a pre requisite. In class we recommend that every pupil has at least a pencil, pen and their planner. Other stationary is welcome and folders etc. will be provided.



Mr J. Worrall

Number of lessons per

The Prescot School Subject Overview for

Computer Science (Yr.10)

1 Course/Subject introduction

Throughout the year a series of units are delivered that will develop the skills required for success and progression in Key stage 4. Alongside this, opportunities will be given to explore and discover Computer Science in a variety of ways and activities. All pupils will be regularly given the opportunity to reflect and review on their learning through the use of retrieval activities that skills and build on confidence within specific topic areas in Computer Science.

2 Course/Subject structure

Pupils will further explore concepts and master skills in the following topic areas: fortnight for KS4: 6

 Term 1
 Systems architecture, Programming constructs

 Term 2
 Networks and Network Protocols, Programming with Python and OO programming

 Term 3
 Logical Operators, Programming and Security and Authentication

Formal assessments will take place throughout the year and pupils will be given opportunities to develop revision skills and exam techniques in order to help build strategies to develop resilience. After each formal assessment all pupils will be given in-depth feedback that celebrates areas of success and help identify areas for future development.

3 Recommended texts or websites to support home learning

www.bbc.co.uk/bitesize https://www.python.org/ https://www.greenfoot.org/doc

4 Specialist equipment/materials required if applicable.

A computer with internet access at home would be beneficial.

In class we recommend that every pupil has at least a pencil, pen and their planner. Other stationary is welcome and folders etc. will be provided.

GCSE computing revision guides for WJEC specification would be useful.



The Prescot School Subject Overview for

Computer Science (Yr.11)

1 Course/Subject introduction

Throughout the year a series of units are delivered that will develop the skills rec and progression in Key stage 4. Alongside this, opportunities will be given to exp Computer Science in a variety of ways and activities. All pupils will be regularly g to reflect and review on their learning through the use of retrieval activities that skills and build on confidence within specific topic areas in Computer Science. Ye opportunity to refine the skills developed at key stage 3 and in Year 10 to ensure

Head of Department:

Mr J. Worrall

Number of lessons per fortnight for KS4: **6**

to achieve the best possible outcome in their GCSE Computer Science exam and be fully equipped for life beyond The Prescot School and ready to take Computer Science to the next level.

2 Course/Subject structure

Pupils will further explore concepts and master skills in the following topic areas

Term 1	CS in a wider context, Assembly Languages
Term 2	Software development, Computer science project (NEA*)
Term 3	Pseudocode and algorithms and exam preparation

Formal assessments will take place throughout the year and pupils will be given opportunities to develop revision skills and exam techniques in order to help build strategies to develop resilience. After each formal assessment all pupils will be given in-depth feedback that celebrates areas of success and help identify areas for future development.

3 Recommended texts or websites to support home learning

www.bbc.co.uk/bitesize https://www.python.org/ https://www.greenfoot.org/doc

4 Specialist equipment/materials required if applicable.

A computer with internet access at home would be beneficial.

In class we recommend that every pupil has at least a pencil, pen and their planner. Other stationary is welcome and folders etc. will be provided.

GCSE computing revision guides for WJEC specification would be useful.

(*NEA is a 20 hour programming project taken under exam conditions and is part of the GCSE.)