#### The NC AIMS are that all children should:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

#### The EASTCOURT ATTAINMENT TARGETS can be tabulated as follows:

Multimedia and Word processing	Digital media	Control	Communication and Collaboration	Programming	E-safety

# E-Safety

Understanding implications of 'online'; emails; navigating websites; privacy.

Understanding nature of websites: accuracy, advertisements, inappropriate content

Communicating online – passwords, anonymity, trustworthiness

### Multimedia and Word processing

- knowing the keyboard
- select and add images, sounds, graphics, captions, layouts

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### Digital media + Graphics

#### Graphics

- use a paint package to create artwork
- save and print

#### Music and Sound

- explore electronic music, sound devices and software
- select and create own music or soundscape

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#### Control

- follow and give instructions to move onscreen around a course
- extend control skill to other devices (recording, camera, etc.)

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## Communication and Collaboration

#### Messaging

- compare electronic with traditional forms of written communication
- respond to an electronic message

#### Publishing

- Create a class blog, forum or webpage, adding graphics and sound
- Decide who should be able to access this from home.

#### Data

- use sorting or grouping programs
- explore pictograms and other ways of illustrating data

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#### The EASTCOURT ATTAINMENT TARGETS can be tabulated as follows:

Multimedia and Word	Digital media	Communication and	Programming	E-safety
processing		Collaboration		

## E-Safety

Understanding implications of 'online'; emails; navigating websites; privacy.

Understanding nature of websites: accuracy, advertisements, inappropriate content

Communicating online – passwords, anonymity, trustworthiness

### Multimedia and Word processing

- type text; edit, save, print, retrieve, insert and amend
- select and use graphics, video and sound to enhance

### Digital media + Graphics

## Digital imagery

- edit image quality, enhance by, e.g., cropping, recolouring Animation
- create a sequence of still images to form an animation which illustrates a story or idea

## Programming

Units 1 and 2 - Control; Move the Turtle

- generate instruction sequences to create geometric shapes, patterns
- ditto to move floor robots in required directions

•

## Communication and Collaboration

#### Messaging

- compare, discuss and evaluate different ways of e-communication Publishing
- discuss value and ways of sharing information with a wider audience

#### Data

- use graphic package to record own information
- appreciate value of ICT-based data handling
- understand nature of a branching database: i.e. yes/no answers only

#### The NC AIMS are that all children should:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

# The EASTCOURT ATTAINMENT TARGETS can be tabulated as follows:

Multimedia and Word	Digital media	Programming	Data	E-safety
processing				

## E-Safety

online research: differing search engines, authenticity and use of information, unwanted advertising, safesearch, acknowledging sources, copyright, plagiarism communication and collaboration: variety of platforms, appropriate language, email attachments, social networking, privacy, uncomfortable communication e-awareness: cyberbullying, passwords, communication by unknown source

# Multimedia and Word processing

• enhance text using fonts, text boxes, borders, etc.

#### Digital media + Graphics

#### Music and Sound

• locate, record, save and retrieve sounds, using software

# **Programming**

#### UNIT 1: SCRATCH

• create an animation with background and sprite

#### UNIT 2: LOGO

• write a practical program to produce lines or geometric patterns

#### Data

#### Databases

- collect, evaluate and store data
- convert to, e.g., bar charts, to provide answers to relevant questions

#### Communication and Collaboration

#### The NC AIMS are that all children should:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
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## Multimedia and Word processing

• enhance text by, e.g. inserting photographs

#### Digital media + Graphics

#### Music and Sound

plan, script and record a radio programme

# Programming

#### UNIT 1: SCRATCH

• create a simple game with a sprite

#### UNIT 2: KODU

• create a virtual world with a moveable sprite

#### Data

#### Graphing

• use and evaluate different graphing packages on collected data

#### Branching Databases

- study, create and use a branching database to analyse data
- •

#### Communication and Collaboration

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- · use sequence, selection, and repetition in programs; work with variables and various forms of input and output
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## Multimedia and Word processing

- present enhanced text for a specific audience
- \_

#### Digital media + Graphics

#### Digital imagery

• plan and record a video, using cinematic techniques

Music and Sound

• collect, import, record and edit sounds from different sources

•

# Programming

## UNIT 1: KODU

• enhance a virtual world with multiple characters, different camera angles, etc.

#### UNIT 2: SMALL BASIC

• use basic language and commands

#### Data

## Modelling and Simulation

- navigate a spreadsheet using basic functions
- create and use a spreadsheet for a practical purpose

#### Data logging

plan and carry out an investigation using data logging technology

## Communication and Collaboration

#### The NC AIMS are that all children should:

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#### Multimedia and Word processing

- present enhanced text for a specific audience
- \_

#### Digital media + Graphics

#### Digital imagery

plan and record a video, using cinematic techniques

# Programming

#### UNIT 1: PYTHON - small basics

• use basic language and commands

#### UNIT 2: HTML

- create formatted page with pictures, hyperlinks, etc.
  - •

#### Data

#### Databases

- collect, organise, interpret and draw conclusions from a database to solve a specific problem.
- present and justify findings to an audience

#### Simulation

• identify and enter formulae into a spreadsheet to create tables of results, draw graphs and answer specific questions

#### Communication and Collaboration