

# NEW NATIONAL CURRICULUM – 2014

## SUBJECT AREA: Computing



### End of year expectations:

#### Year 1

- Understand what algorithms are
- Create simple programs
- Use technology purposefully to create digital content
- Use technology purposefully to store digital content
- Use technology purposefully to retrieve digital content
- Use technology safely
- Keep personal information private
- Recognise common uses of information technology beyond school

### End of year expectations:

#### Year 2

- Understand that algorithms are implemented as programs on digital devices
- Understand that programs execute by following precise and unambiguous instructions
- Debug simple programs
- Use logical reasoning to predict the behaviour of simple programs
- Use technology purposefully to organise digital content
- Use technology purposefully to manipulate digital content
- Use technology respectfully
- Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies

### End of year expectations:

#### Year 3

- Write programs that accomplish specific goals
- Use sequence in programs
- Work with various forms of input
- Work with various forms of output
- Use search technologies effectively
- Use a variety of software to accomplish given goals
- Collect information
- Design and create content
- Present information
- Use technology responsibly
- Identify a range of ways to report concerns about contact

## End of year expectations:

### Year 4

- Design programs that accomplish specific goals
- Design and create programs
- Debug programs that accomplish specific goals
- Use repetition in programs
- Control or simulate physical systems
- Use logical reasoning to detect and correct errors in programs
- Understand how computer networks can provide multiple services, such as the World Wide Web
- Appreciate how search results are selected
- Select a variety of software to accomplish given goals
- Select, use and combine internet services
- Analyse information
- Evaluate information
- Collect data
- Present data
- Understand the opportunities computer networks offer for communication
- Identify a range of ways to report concerns about content
- Recognise acceptable/unacceptable behaviour

## End of year expectations:

### Year 5

- Solve problems by decomposing them into smaller parts
- Use selection in programs
- Work with variables
- Use logical reasoning to explain how some simple algorithms work
- Use logical reasoning to detect and correct errors in algorithms
- Understand computer networks, including the internet
- Appreciate how search results are ranked
- Combine a variety of software to accomplish given goals
- Select, use and combine software on a range of digital devices
- Analyse data
- Evaluate data
- Design and create systems
- Understand the opportunities computer networks offer for collaboration
- Be discerning in evaluating digital content

## End of year expectations:

### Year 6

- Solve problems by decomposing them into smaller parts
- Use selection in programs
- Work with variables
- Use logical reasoning to explain how some simple algorithms work
- Use logical reasoning to detect and correct errors in algorithms
- Understand computer networks, including the internet
- Appreciate how search results are ranked
- Combine a variety of software to accomplish given goals
- Select, use and combine software on a range of digital devices
- Analyse data
- Evaluate data
- Design and create systems
- Understand the opportunities computer networks offer for collaboration
- Be discerning in evaluating digital content