

# Kingsmoor Academy

## Computing Overview

### 2017-2018

## Key Stage One

|                 | Autumn 1   | Autumn 2   | Spring 1  | Spring 2  | Summer 1   | Summer 2  |
|-----------------|--|--|---|---|--|---|
|                 | PROGRAMMING  | COMPUTATIONAL THINKING   | CREATIVITY  | COMPUTER NETWORKS   | COMMUNICATION/ COLLABORATION   | PRODUCTIVITY  |
| Year 1<br>Ghana | <b><u>Unit 1.1 We are treasure hunters</u></b><br><i>Planning, writing and testing computer programs for digital devices, from floor turtles to tablets.</i> | <b><u>Unit 1.2 We are TV chefs</u></b><br><i>Some of the computer science foundations – algorithms, logical reasoning and decomposing problems into smaller parts.</i>       | <b><u>Unit 1.3 We are painters</u></b><br><i>Creating and refining original content using digital tools across a range of media.</i>      | <b><u>Unit 1.4 We are collectors</u></b><br><i>Using and understanding the internet, the web and search engines, effectively and safely.</i>  | <b><u>Unit 1.5 We are storytellers</u></b><br><i>Making the most of computers and the internet for communicating with one of many, and working together on projects.</i> | <b><u>Unit 1.6 We are celebrating</u></b><br><i>Collecting and analysing data and information using computers; organising, manipulating and presenting this to an audience.</i> |
| Year 1<br>Italy | <b><u>Unit 1.1 We are treasure hunters</u></b><br><i>Planning, writing and testing computer programs for digital devices, from floor turtles to tablets.</i> | <b><u>Unit 1.2 We are TV chefs</u></b><br><i>Some of the computer science foundations – algorithms, logical reasoning and decomposing problems into smaller parts.</i>       | <b><u>Unit 1.3 We are painters</u></b><br><i>Creating and refining original content using digital tools across a range of media.</i>      | <b><u>Unit 1.4 We are collectors</u></b><br><i>Using and understanding the internet, the web and search engines, effectively and safely.</i>  | <b><u>Unit 1.5 We are storytellers</u></b><br><i>Making the most of computers and the internet for communicating with one of many, and working together on projects.</i> | <b><u>Unit 1.6 We are celebrating</u></b><br><i>Collecting and analysing data and information using computers; organising, manipulating and presenting this to an audience.</i> |
| Year 2<br>Egypt | <b><u>Unit 2.1 We are astronauts</u></b><br><i>Planning, writing and testing computer programs for digital devices, from floor turtles to tablets.</i>       | <b><u>Unit 2.2 We are games' testers</u></b><br><i>Some of the computer science foundations – algorithms, logical reasoning and decomposing problems into smaller parts.</i> | <b><u>Unit 2.3 We are photographers</u></b><br><i>Creating and refining original content using digital tools across a range of media.</i> | <b><u>Unit 2.4 We are researchers</u></b><br><i>Using and understanding the internet, the web and search engines, effectively and safely.</i> | <b><u>Unit 2.5 We are detectives</u></b><br><i>Making the most of computers and the internet for communicating with one of many, and working together on projects.</i>   | <b><u>Unit 2.6 We are zoologists</u></b><br><i>Collecting and analysing data and information using computers; organising, manipulating and presenting this to an audience.</i>  |

# Key Stage Two

|                     | Autumn 1  | Autumn 2   | Spring 1   | Spring 2  | Summer 1  | Summer 2   |
|---------------------|---|--|--|---|---|--|
|                     | PROGRAMMING   | COMPUTATIONAL THINKING   | CREATIVITY   | COMPUTER NETWORKS   | COMMUNICATION/ COLLABORATION  | PRODUCTIVITY   |
| Year 3<br>India     | <p><b>Unit 3.1 We are programmers</b><br/>Planning, writing and testing computer programs for digital devices, from floor turtles to tablets.</p>           | <p><b>Unit 3.2 We are bug fixers</b><br/>Some of the computer science foundations – algorithms, logical reasoning and decomposing problems into smaller parts.</p>       | <p><b>Unit 3.3 We are presenters</b><br/>Creating and refining original content using digital tools across a range of media.</p> | <p><b>Unit 3.4 We are network engineers</b><br/>Using and understanding the internet, the web and search engines, effectively and safely.</p> | <p><b>Unit 3.5 We are communicators</b><br/>Making the most of computers and the internet for communicating with one of many, and working together on projects.</p>       | <p><b>Unit 3.6 We are opinion pollsters</b><br/>Collecting and analysing data and information using computers; organising, manipulating and presenting this to an audience.</p>  |
| Year 4<br>China     | <p><b>Unit 4.1 We are software developers</b><br/>Planning, writing and testing computer programs for digital devices, from floor turtles to tablets.</p>   | <p><b>Unit 4.2 We are toy designers</b><br/>Some of the computer science foundations – algorithms, logical reasoning and decomposing problems into smaller parts.</p>    | <p><b>Unit 4.3 We are musicians</b><br/>Creating and refining original content using digital tools across a range of media.</p>  | <p><b>Unit 4.4 We are html editors</b><br/>Using and understanding the internet, the web and search engines, effectively and safely.</p>      | <p><b>Unit 4.5 We are co-authors</b><br/>Making the most of computers and the internet for communicating with one of many, and working together on projects.</p>          | <p><b>Unit 4.6 We are meteorologists</b><br/>Collecting and analysing data and information using computers; organising, manipulating and presenting this to an audience.</p>     |
| Year 5<br>Japan     | <p><b>Unit 5.1 We are game developers</b><br/>Planning, writing and testing computer programs for digital devices, from floor turtles to tablets.</p>       | <p><b>Unit 5.2 We are cryptographers</b><br/>Some of the computer science foundations – algorithms, logical reasoning and decomposing problems into smaller parts.</p>   | <p><b>Unit 5.3 We are artists</b><br/>Creating and refining original content using digital tools across a range of media.</p>    | <p><b>Unit 5.4 We are web developers</b><br/>Using and understanding the internet, the web and search engines, effectively and safely.</p>    | <p><b>Unit 5.5 We are bloggers</b><br/>Making the most of computers and the internet for communicating with one of many, and working together on projects.</p>            | <p><b>Unit 5.6 We are architects</b><br/>Collecting and analysing data and information using computers; organising, manipulating and presenting this to an audience.</p>         |
| Year 6<br>Australia | <p><b>Unit 6.1 We are mobile app developers</b><br/>Planning, writing and testing computer programs for digital devices, from floor turtles to tablets.</p> | <p><b>Unit 6.2 We are project managers</b><br/>Some of the computer science foundations – algorithms, logical reasoning and decomposing problems into smaller parts.</p> | <p><b>Unit 6.3 We are marketers</b><br/>Creating and refining original content using digital tools across a range of media.</p>  | <p><b>Unit 6.4 We are app planners</b><br/>Using and understanding the internet, the web and search engines, effectively and safely.</p>      | <p><b>Unit 6.5 We are interface designers</b><br/>Making the most of computers and the internet for communicating with one of many, and working together on projects.</p> | <p><b>Unit 6.6 We are market researchers</b><br/>Collecting and analysing data and information using computers; organising, manipulating and presenting this to an audience.</p> |