**Chesterton computing key concepts**

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|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 1** | **Digital Painting**  Creating Media  Effective use of Tools | **Grouping Data**  Data & Information | **Digital Writing**  Effective use of Tools | **Programming animation**  Design & Development  Programing | **Technology around us**  Computing Systems  Safety & Security | **Moving a robot**  Algorithm  Design and Development  Programing |
|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Year 2 | **Programming Quizzes**  Algorithm  Design and Development  Programing | **Digital Photography**  Creating Media  Effective use of Tools | **Pictograms**  Data & Information  Effective use of Tools | **Making Music**  Design & Development  Effective use of Tool | **Information technology around us**  Computing Systems  Safety & Security | **Robot algorithms**  Algorithm  Design and Development  Programing |
|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| **Year 3** | **Connecting Computers**  Computing Systems  Safety & Security  Networks | **Desktop publishing**  Creating Media  Effective use of Tools  Design & Development | **Sequencing Sounds**  Algorithm  Design & Development  Programing | **Stop frame animation**  Creating Media  Effective use of Tools  Design & Development | **Branching Database**  Data & Information | **Events and actions in programming**  Algorithm  Design and Development |
|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| **Year 4** | **Repetition in shapes**  Algorithm  Design & Development  Programing | **The internet**  Networks  Safety & Security | **Data logging**  Computing Systems  Data & Information | **Repetition in games**  Algorithm  Design & Development  Programing | **Photo editing**  Creating Media  Effective use of Tools | **Audio production**  Creating Media  Effective use of Tools |
|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| **Year 5** | **Sharing information**  Networks  Safety & Security | **Flat File Databases**  Data & Information | **Website creating**  Creating Media  Effective use of Tools | **Selection in physical computing**  Computing Systems  Programing | **Vector drawing**  Creating Media  Effective use of Tools | **Selection in quizzes**  Algorithm  Design & Development  Programing |
|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 6** | **Introduction in spreadsheets**  Data & Information | **Internet communication**  Networks  Safety & Security | **Video production**  Creating Media  Design & Development  Effective use of Tools | **Variables in games**  Algorithm  Design & Development  Programing | **3D modelling**  Effective use of Tools  Design & Development | **Sensing**  Algorithm  Computing Systems  Design & Development  Programing |