

Lightcliffe CofE Primary School

# Computing Progression of Skills

In partnership to Educate, Nurture & Empower



## Online Safety

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"> <li>- Understand what is safe to share online</li> <li>- Recognise trusted adults</li> <li>- Follow simple online rules</li> </ul>	<ul style="list-style-type: none"> <li>- Know what personal information is</li> <li>- Understand the importance of passwords</li> <li>- Recognise online risks</li> </ul>	<ul style="list-style-type: none"> <li>- Understand digital footprints</li> <li>- Use safe search engines</li> <li>- Identify and report concerns</li> </ul>	<ul style="list-style-type: none"> <li>- Recognise secure websites</li> <li>- Understand online identity and reputation</li> <li>- Know how to manage digital content</li> </ul>	<ul style="list-style-type: none"> <li>- Understand online relationships and cyberbullying</li> <li>- Know how to protect digital reputation</li> <li>- Use reporting tools</li> </ul>	<ul style="list-style-type: none"> <li>- Manage digital identity</li> <li>- Apply advanced safety strategies</li> <li>- Understand data privacy and consent</li> </ul>

## Digital Literacy

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"> <li>- Use classroom technology (iPads, computers)</li> <li>- Create simple digital content</li> <li>- Navigate basic software</li> </ul>	<ul style="list-style-type: none"> <li>- Create digital art and music</li> <li>- Use word processors</li> <li>- Save and retrieve work</li> </ul>	<ul style="list-style-type: none"> <li>- Improve typing skills</li> <li>- Use email safely</li> <li>- Explore simulations</li> </ul>	<ul style="list-style-type: none"> <li>- Adapt writing for different audiences</li> <li>- Use search engines effectively</li> <li>- Create animations</li> </ul>	<ul style="list-style-type: none"> <li>- Blog and comment responsibly</li> <li>- Use concept maps to organise ideas</li> <li>- Evaluate digital content</li> </ul>	<ul style="list-style-type: none"> <li>- Manage blogs and multimedia</li> <li>- Moderate comments</li> <li>- Present structured information clearly</li> </ul>

## Data Handling

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"><li>- Sort and group objects</li><li>- Recognise simple data sets</li><li>- Use pictograms</li></ul>	<ul style="list-style-type: none"><li>- Enter and organise data in spreadsheets</li><li>- Use simple formulas</li><li>- Create basic charts</li></ul>	<ul style="list-style-type: none"><li>- Create and interpret graphs</li><li>- Use branching databases</li><li>- Analyse simple data sets</li></ul>	<ul style="list-style-type: none"><li>- Use variables in data</li><li>- Search and evaluate digital data</li><li>- Create structured databases</li></ul>	<ul style="list-style-type: none"><li>- Query databases</li><li>- Analyse and interpret data</li><li>- Use spreadsheets for planning</li></ul>	<ul style="list-style-type: none"><li>- Use spreadsheets for budgeting</li><li>- Create interactive quizzes</li><li>- Evaluate data accuracy</li></ul>

## Programming and Coding

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"><li>- Give simple commands</li><li>- Understand sequences</li><li>- Debug basic errors</li></ul>	<ul style="list-style-type: none"><li>- Use block coding</li><li>- Create animations</li><li>- Understand inputs and outputs</li></ul>	<ul style="list-style-type: none"><li>- Use selection and repetition</li><li>- Create branching programs</li><li>- Debug multi-step code</li></ul>	<ul style="list-style-type: none"><li>- Use variables and loops</li><li>- Plan and test procedures</li><li>- Refine code for efficiency</li></ul>	<ul style="list-style-type: none"><li>- Use functions and nested loops</li><li>- Apply logic in game design</li><li>- Debug complex programs</li></ul>	<ul style="list-style-type: none"><li>- Use conditionals and functions</li><li>- Create multi-layered programs</li><li>- Evaluate and improve code</li></ul>

## Creativity and Multimedia

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"><li>- Create animated stories</li><li>- Use drawing tools</li><li>- Explore digital storytelling</li></ul>	<ul style="list-style-type: none"><li>- Compose music digitally</li><li>- Create digital art</li><li>- Use multimedia tools</li></ul>	<ul style="list-style-type: none"><li>- Create simulations</li><li>- Design branching databases</li><li>- Use email with attachments</li></ul>	<ul style="list-style-type: none"><li>- Create animations with transitions</li><li>- Write for specific audiences</li><li>- Use multimedia in presentations</li></ul>	<ul style="list-style-type: none"><li>- Design interactive games</li><li>- Build 3D models</li><li>- Use feedback to improve designs</li></ul>	<ul style="list-style-type: none"><li>- Create multimedia blogs</li><li>- Design quizzes with feedback</li><li>- Present ideas using digital tools</li></ul>

## Communication and Networks

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"><li>- Recognise technology in school and home</li><li>- Understand how devices help us</li></ul>	<ul style="list-style-type: none"><li>- Identify technology in the wider world</li><li>- Understand how devices connect</li></ul>	<ul style="list-style-type: none"><li>- Use email to communicate</li><li>- Understand how simulations model real life</li></ul>	<ul style="list-style-type: none"><li>- Understand how search engines work</li><li>- Know how data is retrieved</li></ul>	<ul style="list-style-type: none"><li>- Understand game logic and user interaction</li><li>- Explore how data is shared</li></ul>	<ul style="list-style-type: none"><li>- Understand how networks operate</li><li>- Explain how data travels across the internet</li></ul>