KS3 Computing: Personalized Learning Checklist for Parents

1. Design, use, and evaluate computational abstractions that model real-world problems and systems.

   ☐ My child can do this confidently

   ☐ My child is working on this

   ☐ My child needs help with this

2. Understand and compare key algorithms such as those for sorting and searching.

   ☐ My child can do this confidently

   ☐ My child is working on this

   ☐ My child needs help with this

3. Use at least two programming languages (including one textual) to solve problems using data structures (e.g., lists, arrays).

   ☐ My child can do this confidently

   ☐ My child is working on this

   ☐ My child needs help with this

4. Design and develop modular programs using procedures or functions.

   ☐ My child can do this confidently

   ☐ My child is working on this

   ☐ My child needs help with this

5. Understand simple Boolean logic (AND, OR, NOT) and its use in circuits and programming.

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this

6. Understand binary numbers and perform basic operations (e.g., binary addition, conversions).

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this

7. Understand the hardware and software components of computer systems and their communication.

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this

8. Understand how instructions and data are stored and processed digitally (including text, sound, images).

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this

9. Undertake creative projects combining applications across devices to achieve complex goals.

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this

10. Create, revise, and re-purpose digital artefacts for a target audience, focusing on trustworthiness and usability.

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this

11. Use technology safely, respectfully, responsibly, and securely—including managing privacy and online identity.

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this

12. Recognise and respond to inappropriate content, contact, and conduct online.

☐ My child can do this confidently

☐ My child is working on this

☐ My child needs help with this