

Bolsover Class – Years 2/3

Computing Knowledge Progression

Term / unit	Builds on	Knowledge progression	Computing skills / application	Key vocabulary	Where this leads next
Advent 1 – Computing systems: Using computers	Y1 logging in, software, saving and digital-device knowledge.	Consolidate safe, independent computer use; understand files, programs and digital work; recognise that hardware and software work together.	Log in securely; open programs; create, save and retrieve work; select appropriate tools.	hardware; software; file; folder; login; save; retrieve; device	Supports more complex systems, networks and file management.
Advent 2 – Programming: MakeCode	Y1 command sequences and Bee-Bot programming.	Know that block-based code uses commands, events and sequences; understand that programs can be tested and debugged and repeated actions can be structured efficiently.	Build and run block-code sequences; predict outcomes; test and debug; modify code for a purpose.	MakeCode; block; code; event; sequence; program; debug; output	Progresses towards loops, variables and Scratch programming.
Lent 1 – Programming: Algorithms and debugging	Commands, sequences and introductory block coding.	Know that an algorithm is a precise set of ordered instructions; algorithms can be decomposed and compared for efficiency; bugs are errors that can be found and corrected.	Write and follow algorithms; decompose tasks; predict results; locate bugs; improve solutions.	algorithm; decomposition; sequence; debug; bug; program; efficient; instruction	Establishes core computational thinking for KS2.
Lent 2 – Creating media: Digital designers	Y1 digital design and editing.	Know that digital content is created for an audience and purpose; understand that design choices can be edited, combined and evaluated.	Use digital design tools; combine text/images/shapes; edit and refine work; evaluate suitability.	media; digital content; audience; purpose; edit; layout; image; text	Leads to video, websites, animation and multimedia production.
Pentecost – Online safety: Online privacy and safe use	Y1 understanding of safe, responsible digital behaviour.	Know that accounts and passwords protect information; personal information should be kept private; permission matters online; recognise unsafe or suspicious situations and know when to seek help.	Create strong password ideas; identify personal/private information; make safe choices; report concerns to a trusted adult.	privacy; password; account; personal information; permission; safe; report; trusted adult	Builds towards evaluating online information, communication and digital reputation.