3rd Grade Technology Pacing Guide

Weeks	Unit Title	Focus & Learning Goals
1–6	Unit 1: Computing Systems & Troubleshooting	 model device connections (hardware + software systems) recommend UX improvements justify design trade-offs apply systematic troubleshooting strategies
7–12	Unit 2: Data Transmission & Security	 model packet-based info transmission and protocols understand wired/wireless data flow explore physical & digital security analyze malware-triggered security responses
13–18	Unit 3: Data Management & Modeling	 collect, clean, and transform data compare storage requirements for various data types distinguish bit-level storage vs. display test and refine computational models (e.g. climate)
19–24	Unit 4: Algorithms & Structured Programming	 design with flowcharts/pseudocode create programs using variables, sequences, nested loops, compound conditionals decompose problems and build reusable procedures
25–30	Unit 5: Iterative Development & Collaboration	 modify/remix code with attribution build programs with existing libraries/media apply systematic testing (multiple test cases/users) document and debug collaboratively
31–36	Unit 6: Design Thinking, Impact & Ethics	 evaluate products for function, value, aesthetics (user/producer view) prototype solutions for real-world problems under constraints address bias/accessibility issues analyze societal, cultural, environmental, economic effects and ethical implications of technology