2nd Grade Technology Pacing Guide

Weeks	Unit Title	Focus & Learning Goals
1–6	**Unit 1: Computing Devices & Systems**	• select and operate computing devices per user needs • explain hardware and software functions • describe hardware/software problems using accurate language • describe and model network connections and Internet use
7–12	**Unit 2: Internet & Security Basics**	• model how people connect via networks/Internet • create strong passwords; explain security importance • secure device access
13–18	**Unit 3: Data Collection and Visualization**	• collect/display data visually, including climate data • store, manipulate, modify, delete data • identify data patterns and make predictions using visuals
19–24	**Unit 4: Algorithms & Programming**	• model daily processes via algorithms • use symbols to represent data • create programs with sequences and simple loops • break tasks into steps and describe program expectations • give attribution • debug simple loops/programs
25–30	**Unit 5: Design Thinking – Explore & Build**	• communicate product/device function • collaborate to design/simple build using appropriate tools • identify constraints in engineering design • explore how products meet human needs • model product disassembly/reassembly; brainstorm improvements, repairs
31–36	**Unit 6: Design Thinking – Resources & Global Context**	• classify products as natural vs. technological • identify resources needed and recycling systems • explain disposal vs. reuse environmental impact • compare technology use across communities