K-12 STEM Ecosystem & TEKS Alignment

Product	Finch	Hummingbird	Strawbees	DataSnap	Tinkering Labs
Typical Grades	K-12	4-12	5-8	6-12	K-6
Primary Focus	Robotics and coding	Physical computing	Design and construction	Data-driven engineering	Mechanical invention
Learning Mode	Code robot behaviors	Build and program artifacts	Build structures/ mechanisms	Design, test, and analyze data	Challenge-based building
Programming	Blocks, Python, Java	Blocks, Python, Java	Optional micro:bit	None requried	None
Data Collection	Onboard sensors	Multiple sensors	Optional with micro:bit	Motion sensors and graphs	Informal testing
Tech Apps TEKS	CT, CI, DL, PTC	CT, CI, DL, PTC	CT, CI, PTC	CT, CI, DL, PTC	CT, CI, PTC
Science TEKS	SEPs, systems, motion	SEPs, design, energy	SEPs, force and motion	SEPs, physics forces	SEPs, energy and motion
Math TEKS	Measurement, rates	Computational thinking	Geometry, ratios	Rates, algebra, graphs	Measurement, spatial logic
Best-Fit Role	CS and robotics pipeline	Creative engineering and robotics	Early STEM design	Physics and STEM labs	Elementary engineering