

Teacher Name: Carolyn Wright

Grade Level: 8

Class: Ag Technology 8

**2025-26 GVCS CURRICULUM MAP**

Month	Standard/Learning Target	Program Materials/Resources	Vocabulary	Assessment	Writing
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Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
AgTech 8: Intro to Technology Systems, Communication, Safety	September	Introduce class, expectations, define systems, safety practices.	5.2.TRTP.b Use a variety of hand tools and machines safely.	Hand tools, power tools, systems	In-class activities, safety quizzes	Shop equipment, rulers, iPads

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
Digital Tech: Safety & Digital Systems	September	Use digital tools safely, create digital media to communicate safety, understand system inputs/outputs.	CS.DL.1 Digital Literacy, CS.CT.2 Computational Thinking	Infographic, QR code, media, drone	Canva safety poster, Drone/iPad safety tour video	Canva, Large printer, iPads, Drones

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
AgTech 8: Intro to Power Tools, Tech Drawing, Sanding	October	Define woodworking cuts, safety, create drawings.	5.1.ED.d Develop plans with drawings, prototypes.	Scroll Saw, Band Saw, Drill Press, Router	Core Values Wkst, Safety Quizzes	Scrap wood, shop equipment

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Digital Tech: CAD Design & Digital Tool IDs	October	Design technical drawings in CAD, create QR-linked safety resources.	CS.CT.3 Model & design solutions using computing tools	CAD, vector file, QR code, prototype	Laser/CNC cut designs, QR-coded digital tool cards	Adobe Illustrator, CNC, Laser engraver, QR code generator
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Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
AgTech 8: Fasteners	October	Identify threaded vs. non-threaded fasteners.	Technology literacy standards.	Flat, Phillips, Nail, Bolt, Screw, Rivet	Fasteners & Uses Activity	Fastener Activity Sheets, iPads

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
Digital Tech: 3D Fastener Modeling	October	Design and 3D-print models of fasteners, build a digital catalog.	CS.CT.4 Create and test computational artifacts	3D print, STL file, threaded, non-threaded	3D printed models, Canva digital fastener chart	TinkerCAD, 3D Printer, Canva

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
AgTech 8: Measuring, Common Wood Materials, Cutback & Math	Nov./Dec.	Identify measuring systems, use math for cutbacks.	5.1.ED.d Develop plans with drawings, prototypes.	Imperial, Metric, Height, Width, Depth	Measuring activities, quizzes	Shop tools, lumber, paper, iPads

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
Digital Tech: Measurement & Digital Fabrication	Nov./Dec.	Apply measurement through vinyl, 3D printed, and scaled digital designs.	CS.CT.5 Apply measurement and data in design solutions	Scale, conversion, vector, caliper	Vinyl nameplate project, 3D scaled models	Silhouette, 3D printer, iPads

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AgTech 8: People in Agriculture	Dec./Jan.	Explore careers in agriculture, create poster.	CS.05 Career opportunities in ag.	Animal Sci., Plant Sci., Mechanical Sci.	People in Agriculture LDE	Poster board, internet, iPads

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
Digital Tech: Career Exploration Media	Dec./Jan.	Use digital media to showcase ag careers, create career trading cards.	CS.IC.1 Explore computing's role in careers	Infographic, video edit, trading card	Career trading card, interview video project	Canva, iPads, video editing apps

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
AgTech 8: Forces, Stress, & Structures	Jan./Feb.	Define forces, design/test structures.	MS-ETS1-1 Define criteria and constraints of design solutions.	Shear, Compression, Tension, Bending	Stress testing activities	Popsicle sticks, glue, paper, iPads

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
Digital Tech: Digital Structures & Testing	Jan./Feb.	Model and simulate structural stress with digital tools.	CS.CT.6 Model and simulate real-world systems	Simulation, CAD, stress test, truss	Laser-cut bridge build, digital stress simulation	Laser cutter, CAD software, simulation app

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AgTech 8: Transportation	Feb./March	Discuss vehicle subsystems, analyze energy use.	MS-ETS1-1 Define criteria and constraints of design solutions.	Torque, Power, Frame, Pulley	Subsystem activities, discussions	Shop tools, iPads, rulers
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Digital Tech: Transportation & Prototyping	Feb./March	Design, prototype, and digitally brand mini-vehicles.	CS.CT.4 Create and test computational artifacts	Prototype, 3D print, vinyl wrap, subsystem	3D printed vehicles, vinyl branding	3D printers, Silhouette, CNC, iPads

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
AgTech 8: Agriculture Everyday	March/April	Evaluate agriculture's role in meeting daily needs.	CS.02 Nature & scope of agriculture.	Agribusiness, Agriscience, Commodity	Timeline to 7B, Basic Provisions activities	Food and Farm Fact Sheets, iPads

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Digital Tech: Agriculture in Daily Life Media	March/April	Create infographics, sublimation projects, and AR models to showcase agriculture's role.	CS.DL.2 Create media to communicate information effectively	Infographic, sublimation, AR model	Farm-to-table infographic, sublimation product	Canva, Sublimation printer, AR apps

Unit	Timeframe	Learning Targets / Objectives	Standards	Vocabulary	Assessments	Program Materials / Resources
AgTech 8: Food Science	May	Develop a new flavor of ice cream	CS.02 Nature & scope of agriculture.	Food Science, Product	Ice Cream Flavor Planning and Creation, Taste Test	Culver's Virtual Field Trip, Ice Cream Flavor Planning

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				Development, Ice Cream	Evaluation and Reflection	Packet, Milk, Cream, Sugar, Vanilla, Mix-ins
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