Microsoft

This table contains model K-12 curricular pathways for computer science and digital productivity
Computer science curriculum

	Ages 5 – 10	Ages 11 – 14	Ages 15 – Above
In School Curriculum	**Code.org CS Fundamentals** Introduces students to computational thinking, problem solving, programming concepts and digital citizenship. **Computing with Minecraft** Provide students with hands-on coding experience, self-directed projects to apply their new skills in creative ways, and assessments to test their knowledge and skill development.	**Microsoft MakeCode** Brings CS to life for all students with fun projects, immediate results, and both block and text editors for learners at different levels. **Code.org CS Discoveries** Introductory course empowers students to engage with CS as a medium for creativity, communication, problem solving, and fun. **Coding with Minecraft** This course builds on the popularity of Minecraft, introducing students to core computer programming concepts and computational thinking skills. Can be adapted to cover a broad range of curriculum subjects.	**TEALS Introduction to Computer Science** This is a broad-based intro class that uses Snap! visual programming language to introduce students to computational thinking. **Code.org CS Principles** This course covers many topics including the Internet, Big Data and Privacy, Programming and Algorithms. **TEALS AP CS A** Introduces students to computer science using the industry-standard Java programming language and presents fundamental topics that include problem solving.
Out of School Curriculum	**Code.org CS Fundamentals** Introduces students to computational thinking, problem solving, programming concepts and digital citizenship.	**Microsoft MakeCode** Brings CS to life for all students with fun projects, immediate results, and both block and text editors for learners at different levels.	**Build Your First WebApp on MVA** Students learn basic web technologies and get ready to build a full-stack web app of their own. **edX CS Courses** Online courses from top institutions including Harvard, MIT and Microsoft. Topics include artificial intelligence, cyber security, software engineering, and big data.
Unplugged Curriculum	**Code.org CS Fundamentals Unplugged** and **CS Unplugged** Introduces students to the fundamentals of computer science, whether you have computers in your classroom or not.		

Digital productivity curriculm

Microsoft Digital Literacy Free online classes in the fundamentals of computer basics, internet usage, productivity, security, privacy and more.	**Microsoft Office 365 Training Center** Training and tutorials for Microsoft Excel, OneNote, Outlook, PowerPoint, Word, and OneDrive to help learners improve their productivity skills.	**Microsoft Professional Program in IT Support** This program covers a wide set of skills that prepare students to work as Tier 1 IT support professionals.

Requires Minecraft Education Edition license: **https://education.minecraft.net/get-started/**

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For more information on the curriculum go to www.microsoft.com/digitalskills