

The logo for CodeVA, featuring the word "Code" in a dark blue sans-serif font, followed by a blue speech bubble containing the white letters "VA". Below the word "Code" are four horizontal dashed lines.

Integration Opportunities

English 4.C.3a Have students work in pairs to organize and create a multimodal visual display explaining how a computing system works.

Math 4.MG.5 Mimic how computers might classify quadrilaterals based on their specific properties and attributes, such as side lengths and angles, and explain the process.

Science 4.3d Use classification systems to identify organisms and compare the process to how a computing device with an identification app might identify the organism.

Conduct a mini lesson on how the computer system works, providing students with pictures of examples of inputs (microphone, keyboard, mouse, game controller, etc) outputs (monitors, headphones, TV, speakers, headphones, printer, etc) as well as items that are both output and input (ex. touchscreen, flash drive, etc) Students will work in pairs sorting through the pictures and placing them into a Venn diagram. Review the Venn diagram as a class. Each pair will then be asked to create a poster or linear pattern Twine that displays how a computer system works, showing input (including sensors), processing, and output. (Storage or memory may also be included, but is not required until 5th grade.)