

VBCPS Computer/Technology Proficiencies 2006-2007

As part of the Computer Resource Program coordination for the Department of Technology, the Virginia Beach (VB) Technology Proficiencies for grades K-12 are to be reviewed, revised, realigned, and updated biannually. A VB Technology Proficiencies Revision and Realignment Committee consisting of elementary, middle, and high school computer resource specialists (CRSs) who reviewed and realigned the current VB Technology Proficiencies. The committee compressed and streamlined the current proficiencies according to the newly revised Computer Technology Standards of Learning (SOL) for Virginia's Public Schools that were released in June 2005. This allows for increased creativity and enhancement when correlating to the curricular objectives for Virginia Beach Public Schools.

The VB Technology Proficiencies remain divided by individual grade levels for grades K-5; however, the proficiencies are now clustered for grades 6-8 and 9-12. Draft copies of the revised VB Technology Proficiencies were sent to CRSs for comments. The VB Technology Proficiencies continue to align and reflect the national ISTE standards.

The VB Technology Proficiencies should be used in conjunction with the goals and objectives of the Educational Technology Team. They serve as a collaborative tool and guidelines for computer resource specialists during planning sessions with teachers. Since the emphasis is technology integration across all curricular areas, teachers should provide the curricular objectives. Hence, the VB Technology Proficiencies do not include direct correlations to the Virginia Beach Public Schools' curricular objectives (VBOs). CRSs should ensure that the technology proficiencies are being integrated with the VBOs while continuing to provide multiple opportunities for students to become successful life-long learners.

Again, the VB Technology Proficiencies are designed to be guidelines for computer resource specialists when collaborating and planning with teachers and the major goal is the integration of technology into the Virginia Beach Public Schools' curricular objectives.

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VA DOE Computer Technology SOL	VB Technology Proficiencies Sixth-Eighth Grade
Basic Operations and Concepts	Basic Operations and Concepts
C/T 6-8.1 – C/T 6-8.2	
The student will:	The student will:
<ul style="list-style-type: none"> • demonstrate knowledge of the nature and operation of technology systems. • demonstrate proficiency in the use of technology. 	<p>VBTP 6.1-8.1 Explain the purpose of the following: server, workstation, network, LAN, WAN, Internet, Intranet, operating system and application software, self-help features, and online tutorials.</p> <p>VBTP 6.2-8.2 Save, locate, and retrieve files from various locations and/or storage media.</p> <p>VBTP 6.3-8.3 Communicate about technology using developmentally appropriate and accurate terminology.</p>
Social and Ethical Issues	Social and Ethical Issues
C/T 6-8.3 – C/T 6-8.5	
The student will:	The student will:
<ul style="list-style-type: none"> • demonstrate knowledge of ethical, cultural, and societal issues related to technology. • practice responsible use of technology systems, information, and software. • Demonstrate knowledge of technologies that support collaboration, personal pursuits, and productivity. 	<p>VBTP 6.4-8.4 Understand and demonstrate ethical behavior when using technology and discuss consequences of misuse.</p> <p>VBTP 6.5-8.5 Identify career opportunities associated with technology applications: word processing, desktop publishing, database, spreadsheet, multimedia, and Internet.</p> <p>VBTP 6.6-8.6 Discuss the impact of technology on careers: professional, technical, and clerical.</p> <p>VBTP 6.7-8.7 Cite electronic sources appropriately in bibliographic form.</p> <p>VBTP 6.8-8.8 Demonstrate the responsible use of</p>

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	<p>technology systems and software in compliance with Fair Use and copyright regulations.</p> <p>VBTP 6.9-8.9 Demonstrate responsible, ethical, and safe use of technology with respect to security, privacy, passwords, and personal information.</p> <p>VBTP 6.10-8.10 Exhibit safe and ethical practices that protect computers, networks, and information from viruses, vandalism, and intrusion.</p> <p>VBTP 6.11-8.11 Use appropriate technology and shared resources to communicate, store and retrieve assignments, and work collaboratively with teachers and peers.</p>
Technology Research Tools	Technology Research Tools
C/T 6-8.6 – C/T 6-8.7	
The student will:	The student will:
<ul style="list-style-type: none"> • use technology to locate, evaluate, and collect information from a variety of sources. • evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks. 	<p>VBTP 6.12-8.12 Select and use appropriate electronic resources to access information and evaluate for accuracy, relevance, comprehensiveness, and bias.</p> <p>VBTP 6.13-8.13 Conduct a variety of searches using an online public access catalog.</p> <p>VBTP 6.14-8.14 Use a database to manipulate and report information.</p> <p>VBTP 6.15-8.15 Select information from within a database using a query/search.</p> <p>VBTP 6.16-8.16 Create and format a spreadsheet using formulas.</p> <p>VBTP 6.17-8.17 Create computer-generated graphs using a</p>

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	<p>spreadsheet.</p> <p>VBTP 6.18-8.18 Use content-specific tools, software, and simulations to support learning and research: environmental probes, graphing calculators, and Web tools</p> <p>VBTP 6.19-8.19 Refine an electronic information search using appropriate search strategies.</p> <p>VBTP 6.20-8.20 Evaluate authenticity, accuracy, reliability, and bias of information retrieved from electronic sources.</p>
<i>Problem-solving and Decision-making Tools</i>	<i>Problem-solving and Decision-making Tools</i>
C/T 6-8.8	
The student will:	The student will:
<ul style="list-style-type: none"> use technology resources for solving problems and making informed decisions. 	<p>VBTP 6.21-8.21 Participate in directed and independent learning activities using a variety of technology resources: computer software, digital camera, scanner, CD/DVD, removable storage, TV.</p> <p>VBTP 6.22-8.22 Choose the most appropriate application for a given task: word processing, desktop publishing, database, spreadsheet, multimedia, web page, etc.</p>
<i>Technology Communication Tools</i>	<i>Technology Communication Tools</i>
C/T 6-8.9	
The student will:	The student will:
<ul style="list-style-type: none"> use a variety of media and formats to communicate information and ideas effectively to multiple audiences. 	<p>VBTP 6.23-8.23 Produce a multi-page document using text and graphics.</p> <p>VBTP 6.24-8.24 Edit text using a thesaurus, spell checker, and grammar checker.</p> <p>VBTP 6.25-8.25 Produce documents integrating applications appropriately:</p>

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	<p>spreadsheets, graphics, and databases.</p> <p>VBTP 6.26-8.26 Create electronic graphic organizers such as a fishbone diagram, story web, Venn diagram, cause and effect chart, flow chart, concept map, mind map, etc.</p> <p>VBTP 6.27-8.27 Plan and produce an individual or collaborative presentation such as web pages, multimedia, digital video, etc.</p>
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