

Grades 6, 7, 8

Adopted 2017

Information and Communication

1. Demonstrate and practice the ability to effectively utilize research strategies to locate appropriate digital resources in support of their learning. [TCS.6-8.1](#)
2. Practice and demonstrate the ability to evaluate resources for accuracy, perspective, credibility and relevance. [TCS.6-8.2](#)
3. Locate and collect resources from a variety of sources and organize assets into collections for a wide range of projects and purposes. [TCS.6-8.3](#)
4. Explore real-world issues and problems and actively pursue an understanding of them and solutions for them. [TCS.6-8.4](#)
5. Select appropriate platforms and tools to create, share and communicate their work effectively. [TCS.6-8.5](#)
6. Create original works or responsibly repurpose other digital resources into new creative works. [TCS.6-8.6](#)
7. Communicate complex ideas clearly using various digital tools to convey the concepts textually, visually, graphically, etc. [TCS.6-8.7](#)
8. Publish or present content designed for specific audiences and select platforms that will effectively convey their ideas to those audiences. [TCS.6-8.8](#)

Computational Thinking

9. Practice defining problems to solve by computing for data analysis, modeling or algorithmic thinking. [TCS.6-8.9](#)
10. Find or organize data and use technology to analyze and represent it to solve problems and make decisions. [TCS.6-8.10](#)
11. Break problems into component parts, identify key pieces and use that information to problem solve. [TCS.6-8.11](#)
12. Demonstrate an understanding of how automation works and use algorithmic thinking to design and automate solutions. [TCS.6-8.12](#)

Digital Citizenship

13. Manage their digital identities and reputations within school policy, including demonstrating an understanding of how digital actions are never fully erasable. [TCS.6-8.13](#)

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- 14. Demonstrate and advocate for positive, safe, legal and ethical habits when using technology and when interacting with others online. TCS.6-8.14**
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- 15. Demonstrate and advocate for an understanding of intellectual property with both print and digital media-including copyright, permission and fair use by creating a variety of media products that include appropriate citation and attribution elements. TCS.6-8.15**
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- 16. Demonstrate an understanding of what personal data is and how to keep it private and secure, including the awareness of terms such as encryption, HTTPS, password, cookies and computer viruses; they also understand the limitations of data management and how data-collection technologies work. TCS.6-8.16**
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Collaboration

- 17. Use digital tools to interact with others to develop a richer understanding of different perspectives and cultures. TCS.6-8.17**
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- 18. Use collaborative technologies to connect with others, including peers, experts and community members, to learn about issues and problems or to gain broader perspective. TCS.6-8.18**
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- 19. Determine their role on a team to meet goals, based on their knowledge of technology and content, as well as personal preference. TCS.6-8.19**
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- 20. Select collaborative technologies and use them to work with others to investigate and develop solutions related to local and global issues. TCS.6-8.20**
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Empowered Learning

- 21. Articulate personal learning goals, select and manage appropriate technologies to achieve them, and reflect on their successes and areas of improvement in working toward their goals. TCS.6-8.21**
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- 22. Identify and develop online networks within school policy, and customize their learning environments in ways that support their learning, in collaboration with an educator. TCS.6-8.22**
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- 23. Actively seek performance feedback from people, including teachers, and from functionalities embedded in digital tools to improve their learning process, and select technology to demonstrate their learning in a variety of ways. TCS.6-8.23**
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- 24. Navigate a variety of technologies and transfer their knowledge and skills to learn how to use new technologies. TCS.6-8.24**
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Innovation and Design

- 25. Engage in a design process and employ it to generate ideas, create innovative products or solve authentic problems. TCS.6-8.25**
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- 26. Select and use digital tools to support a design process and expand their understanding to identify constraints and trade-offs and to weight risks. TCS.6-8.26**
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27. Engage in a design process to develop, test and revise prototypes, embracing the cyclical process of trial and error and understanding problems or setbacks as potential opportunities for improvement. TCS.6-8.27

28. Demonstrate an ability to persevere and handle greater ambiguity as they work to solve open-ended problems. TCS.6-8.28