ISTE Standards for Students Tech Talks

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  - 7 ISTE Standards for Students → "7 Ways" MV.

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What are we doing?

- Introduction & Objective
- What are the ISTE standards?
- Why should I use ISTE-Students?
- Breaking down the 7 standards.
- Advice, “Goodies”, Evaluation, and Questions.

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What are we learning?

"After this training, teachers will be able to apply the **ISTE Standards for Students** to integrate technology in their classroom."

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What are the ISTE standards?

- The ISTE standards creates "high-impact, sustainable, scalable and equitable learning experiences for all learners".
- In over 20 years and adopted in all 50 U.S. states, the ISTE standards have been "using technology to learn, teach, lead and coach".

What Are The ISTE Standards? by ISTE.

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Why should I use ISTE-Students?

- Prepare for the future.
- Human life is physical and digital.
- Teaching principles > specific tools.
- We are global citizens.
- Lives, learning, and technology's role in both → "learning is a student-driven process".

Five Reasons Why the 2016 ISTE Standards for Students Matter by Sarah Stoeckl of ISTE.

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Breaking down the 7 standards

1. Empowered Learner
2. Digital Citizen
3. Knowledge Constructor
4. Innovative Designer
5. Computational Thinker
6. Creative Communicator
7. Global Collaborator

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1) Empowered Learner

- Description: students actively set and accomplish learning goals.
- Tool recommendation: Google Docs/Microsoft Word
- Application: set goals, reflect progress in a journal, receive feedback to refine goals, and express problems.
- Keywords: Set goals → Seek feedback → Demonstrate learning.

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2) Digital Citizen

- Description: students act safely, legally, and ethically in digital interactions.
- Tool recommendation: Nearpod
- Application: attend the digital citizen course and apply what they learn when using other technologies.
- Keywords: digital identity, social interactions, intellectual property, security.

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3) Knowledge Constructor

- Description: students build resources using various technology tools.
- Tool recommendation: Wakelet
- Application: curate, share, and evaluate resources to help study for an exam or develop a project.
- Keywords: Accuracy, perspective, credibility, relevance.

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4) Innovative Designer

- Description: students solve problems using various technology tools.
- Tool recommendation: Adobe Spark
- Application: students present what the have learned using a graphic, video, or webpage.
- Keywords: deliberate design, consider constraints, refine prototypes, tolerance.

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5) Computational Thinker

- Description: use data to develop and test solutions.
- Tool recommendation: Forms → Sheets/Excel.
- Application: students gather and analyze qualitative and quantitative survey data to make a decision about a local school issue.
- Keywords: component parts, descriptive models, algorithmic thinking.

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6) Creative Communicator

- Description: students communicate and express themselves using a variety of tools.
- Tool recommendation: Seesaw
- Application: students combine text, images, audio, and video to create a portfolio of their learning progress.
- Keywords: repurpose or remix, visualizations, intended audiences.

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7) Global Collaborator

- Description: work issues with others locally and globally.
- Tool recommendation: Flipgrid
- Application: students participate in a community event about what it means to be an American by sharing their perspective through a video discussion.
- Keywords: mutual understanding, multiple viewpoints, project teams, roles.

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Starting Advice

- Start small.
- Let them play.
- Anticipate support.
- Be patient.
- Focus on purpose.

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ISTE Goodies

- ISTE Standards for Students by ISTE.
- ISTE Standards Full Video Playlist by ISTE.
- Refresh Your Teaching with the ISTE Standards for Students by Fanny Passeport of Common Sense Education.
- What Are ISTE Standards? (And Why Do They Matter?) by Chris Zook of Applied Educational Systems.

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Tech Integration Goodies pt. 1

- SAMR Model by Dr. Ruben Puentedura - categorizes technology integration into a 4-level hierarchy organized from less to most complex level of integration.
- TPACK Framework by Punya Mishra and Matthew J. Koehler of Michigan State University - analyzes the interaction between technological, pedagogical, and content knowledge.
- 2017 National Education Technology Plan by the US Office of Technology Education - national policy document.

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Tech Integration Goodies pt. 2

- Technology Integration Matrix (TIM) by Florida Center for Instructional Technology - compares 5 characteristics of meaningful learning environments to 5 levels of tech integration.
- PIC-RAT Framework by Dr. Royce Kimmons - analyzes the intersection between students' and the teacher's role in technology.
- Triple E Framework by Liz Kolb - measures to what degree technology is being integrated into a lesson.

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Thank you!

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