



E-Learning: It's Elementary, My Dear Watson



Lindsey Link, Teresa Lansford, Laura Young, Sherry Franklin
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Essential Question(s)

What is digital literacy?

Summary

In this session, participants will investigate authenticity and e-learning and connect them to create meaningful experiences for their students. We know that authentic teaching engages students in real-world problems and situations. When teachers incorporate their knowledge of authentic learning with e-learning in their classrooms, they can maximize student engagement and learning. While working in cooperative groups, our participants will uncover the mysteries of age-appropriate tech tools that support cross-curricular learning.

Learning Goals

- Investigate ISTE standards.
- Deduce the meaning of digital literacy.
- Draw conclusions to determine which tech tools promote digital literacy.

Attachments

- [1.1 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [1.1 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pptx](#)
- [1.2 Digital Citizen—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [1.2 Digital Citizen—E-Learning_ It's Elementary, My Dear Watson.pptx](#)
- [1.3 Knowledge Constructor—E-Learning_ It's Elementary, My Dear Watson \(2\).pdf](#)
- [1.3 Knowledge Constructor—E-Learning_ It's Elementary, My Dear Watson \(2\).pptx](#)
- [1.4 Innovative Designer—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [1.4 Innovative Designer—E-Learning_ It's Elementary, My Dear Watson.pptx](#)
- [1.5 Computational Thinker—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [1.5 Computational Thinker—E-Learning_ It's Elementary, My Dear Watson.pptx](#)
- [1.6 Creative Communicator—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [1.6 Creative Communicator—E-Learning_ It's Elementary, My Dear Watson.pptx](#)
- [1.7 Global Collaborator—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [1.7 Global Collaborator—E-Learning_ It's Elementary, My Dear Watson.pptx](#)
- [ISTE Standards Tents—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [ISTE Standards Tents—E-Learning_ It's Elementary, My Dear Watson.pptx](#)
- [Note Catcher-E-Learning-It's Elementary, My Dear Watson.docx](#)
- [Note Catcher-E-Learning-It's Elementary, My Dear Watson.pdf](#)
- [Poster 1.1 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.docx](#)
- [Poster 1.1 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [Poster 1.2 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.docx](#)
- [Poster 1.2 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [Poster 1.3 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.docx](#)
- [Poster 1.3 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [Poster 1.4 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.docx](#)
- [Poster 1.4 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [Poster 1.5 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.docx](#)
- [Poster 1.5 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [Poster 1.6 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.docx](#)
- [Poster 1.6 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [Poster 1.7 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.docx](#)
- [Poster 1.7 Empowered Learner—E-Learning_ It's Elementary, My Dear Watson.pdf](#)
- [Session Slides—E-Learning_ It's Elementary, My Dear Watson.pptx](#)

Materials

- Session Slides (attached)
- Student [ISTE standards](#) (print from link, one per participant, recommended to print on cardstock; in color)
- Note Catcher (attached, 2-sided, one per participant)
- ISTE Standards Posters (attached, print on legal paper, one of each standard)
- Stickers (any kind or size)
- ISTE Standard Tents (attached, 1 copy)
- [Copy of ISTE Jamboard](#) (click link to make copy)
- Participant Slideshow (attached, one for each standard)

5 minutes

Engage

Presenter's Note: Preparation

Preparing for presenting:

You will need to make a [copy of the Jamboard](#) and paste a link or QR code in **slide 8**. For each of the 7 **Participant Slides**, create a QR code or a shortened URL. The shortened URLs will need to be added to **slide 10** and on **slide 9** of the Jamboard.

Setting up the session:

Place the seven **ISTE Standards Posters** around the room. Place the **ISTE Standard Tents** around the room on tables. Have participants pick up a **Note Catcher** Handout before they sit down.

As participants come in, display **slide 2** of the attached **Session Slides** and ask them to participate in a modified [Magnetic Statement](#) Instructional Strategy. Have participants place a sticker on the **ISTE standard poster** that they find *most challenging*.

Begin the session by displaying **slide 3**. Introduce the session name and the presenters. Move to **slide 4** and explain to the participants that they will be working to answer the Essential Question, "What is digital literacy?" Display **slide 5** and share the Learning Objectives for this session. Inform the participants that they have a Note Catcher to use throughout the session.

Display **slide 6** with the digital literacy [Menti](#) word cloud. Ask the participants to consider what the words and phrases on this word cloud could represent. Inform them that their job is to solve this mystery by the end of the session.

10 minutes

Explore

Display **slide 7**. Go over the ISTE standards with the participants. Ask who is familiar with the standards. Who has already been teaching them in their classroom?

Inform the participants that you will be modeling how to make lessons more authentic and engaging during this session, all while incorporating the ISTE standards.

Display **slide 8**. Ask participants to think about the seven ISTE standards they just discussed and which one they might be *most comfortable* with teaching. Share the link or QR code for participants to access the [Jamboard](#). Ask participants to first find the ISTE standard they feel *most comfortable* teaching. Have them click and drag a magnifying glass from the top left of the slide and place it in the gray box on the right of the slide.

Display **slide 9** and explain to the participants that they will be using the sticky note feature on the Jamboard to answer a question on the ISTE standard they are *most comfortable* with teaching. Model for the participants how to use the sticky note feature. Start the timer on the slide and have the participants answer the question "What are some questions we should ask to determine if a tech tool is the best solution?"

Possible Participant Responses

- Is this age appropriate?
- Will it make it through my school district's filter?
- Do the students have the prerequisite skills to use this tool?
- Does this tech tool actually fit the purpose?

Presenter's Note

While participants are working, check to see if any of the Jamboard slides do not have participants working on them. Ask for some volunteers to add to the board(s).

20 minutes

Explain

Display **slide 10** and remind participants about the activity they completed when they first walked in the room. Inform participants they will be working in groups of 4-6 (depending on the size of the session) to create a short slide presentation on the ISTE standard that they feel is *most challenging*. Give participants time to choose and pull up their ISTE standards board. Once participants choose a standard, have them regroup by standards. This will enable all participants working on Standard 1 to sit at the same table, the same for the other 6 standards.

Then display **slide 11**, share expectations for working on the slides and show participants the questions they will answer:

- What are the key components of this standard?
- How does this standard look in the classroom?
- What tech tools support this standard?

Have participants work as a group to type the answer to all three questions. Pass out the **ISTE Standards** handout or provide participants with a [link](#) to a digital version as a resource. If participants struggle to answer the third question about Tech Tools, refer them to the back of the **Note Catcher** handout where the Tech Tool Resources are listed. Encourage participants to also use the information on the Jamboard from the previous activity. Start the timer and give participants time to complete their presentation.

10 minutes

Extend

Display **slide 12** and inform participants they will be viewing and teaching about all the ISTE standards. Have participants choose one volunteer from their table to be the [30-Second Expert](#). This volunteer will stand up when it is their group's turn and in 30 seconds share the most important aspects they learned about the ISTE standard they worked on. Give the groups time to decide what the volunteer will share with the whole group. Go around the room one group at a time giving each group a chance to share with the entire group.

5 minutes

Evaluate

Display **slide 13** to show the participants the same Menti word cloud from Engage. Ask participants to answer the following question: “Based on the words on the screen and what we have done today, what do you think the prompt for this word cloud was?” If participants need a hint, remind them about the Essential Question and Learning Objectives.

Possible Participant Responses

- How do you define digital literacy?
- What are some important technology skills students need to learn in today's world?
- What is the most important part of digital literacy?
- What is hardest to teach about digital literacy?

Move to **slide 14** and share the formal definition of digital literacy with the participants.

Display **slide 15** and point out to participants how this concept has been modeled for them during this session. They found and consumed digital content as they looked at the ISTE Standards on the Jamboard, they created digital content with their Participant slide shows, and they shared information through 30-Second Expert. This is what their students would do when they teach the ISTE standards authentically.

Display **slide 16** and ask participants to look at the Menti word cloud one more time. Ask them “What is one phrase or word, something you can take with you to help you integrate digital literacy moving forward?” Have them write the word somewhere on their Note Catcher handout. Ask whether anyone is willing to share what they wrote on their Note Catcher. Have a few volunteers share out.

To end the session, ask the group if there are questions. Thank the participants for attending.

Research Rationale

ISTE Student Standards (2017) are designed to mirror the changes in the evolving technological landscape with a focus on using technology in the classroom to learn, collaborate, lead, and empower students. The President of ISTE, Torrey Trust, (2018) posits that the ISTE Standards have the potential to shape teaching and learning throughout the next decade. The ISTE Standards encourage and support teachers in becoming advocates for the use of technology to bridge the digital divide as well as empower all students to become digital citizens who positively contribute to society. ISTE Standards promote the use of diverse emerging technology tools that support student learning.

Through using emerging technology tools, students can showcase their knowledge and skills in a variety of ways. Additionally, emerging technology tools can be used by teachers to collect diagnostic, formative, and summative assessment data that can be used to inform teaching and learning (Trust, 2018). The ISTE Standards provide a road map so that educators can help students become empowered learners who are able to thrive in our constantly evolving technological landscape. Moreover, the ISTE Standards are designed to empower student voice and ensure that learning is a student-driven process (ISTE, 2017).

Resources

International Society for Technology in Education. (2017). National educational technology standards for students. Retrieved from <https://www.iste.org/standards/iste-standards-for-students>

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K20 Center. (n.d.). 30-Second expert. Strategies. <https://learn.k20center.ou.edu/strategy/1048>

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Trust, T. (2018). 2017 ISTE standards for educators: From teaching with technology to using technology to empower learners. Journal of Digital Learning in Teacher Education, 34(1), 1-3.