

# Session 2: ISTE Assessments



# Elements of ISTE Standards for Students

ISTE has **7**  
domains.

Each Domain  
has **4**  
standards

Total of **28**  
Standards

**1** Empowered  
Learner

Students leverage technology to take an active role in choosing, achieving, and demonstrating competency in their learning goals, informed by the learning sciences.

**2** Digital Citizen

Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.

**3** Knowledge  
Constructor

Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

**4** Innovative  
Designer

Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

**5** Computational  
Thinker

Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.

**6** Creative  
Communicator

Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

**7** Global  
Collaborator

Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

# Available Aligned Assessments

## SEAL OF ALIGNMENT

<https://www.iste.org/standards/iste-seal-of-alignment>

The mark of an ISTE Standards-aligned resource

The ISTE Seal of Alignment program recognizes edtech products for their alignment to the ISTE Standards. When you see the seal, you'll know the resource or tool provides a high-quality, standards-aligned learning experience that enhances students'

Assessment Resources



# Available Aligned Resources

The List of ISTE Aligned Resources (FREE and PAID) is here: <https://www.iste.org/standards/iste-seal-of-alignment>



## Applied Digital Skills



## Google Applied Digital Skills

Video-based instruction and creative projects to teach students in grades 7-12 how to use and apply G Suite applications like Docs, Sheets and Slides. This is a free resource.

[VIEW REPORT](#)



## Google CS First

A computer science and coding curriculum for students age 9-14. Teaches through storytelling, art, sports, fashion design, social media and animation. This is a free resource.

[VIEW REPORT](#)



## Oracle Academy

Computer science educator professional development courses that introduce concepts of database programming and the Java language. Courses are interactive and conclude with a face-to-face event for certification. Courses are free; travel is not included.

[VIEW REPORT](#)



## Microsoft Fundamentals

A package of teacher-led and self-guided courses designed to prepare participants for the Microsoft Fundamentals exam. Teacher-led courses are available via authorized Microsoft accounts; self-guided courses are free at the Microsoft Learn website.

[VIEW REPORT](#)

# How have educators used ISTE?

Educators have often aligned their curriculum to the ISTE standards.

In this example: We will show Wisconsin State's Alignment to ISTE and also how they created a rubric to do a **FREE Self-Assessment for students**

# ISTE Self-Assessment Rubrics

## Wisconsin Standards for Information and Technology Literacy (ITL)

**Link:** <https://bit.ly/iste-gain>



These standards connect and interrelate current perspectives in information literacy, media literacy, and technology literacy into a unified conceptual framework. The standards also demonstrate processes for rethinking education, adapting to a constantly changing technological landscape and preparing students to enter an increasingly global economy.

# Grade Bands

Grade bands of K-2, 3-5, 6-8 and 9-12 align to typical elementary, middle and high school levels.

Grade bands K-2 and 3-5 performance indicators represent knowledge and skills that should be integrated throughout the elementary curriculum. These are represented in the standards coding with “e” and “i” respectively as there is no recommended grade level associated with each performance indicator.

# ISTE Domain 1: Empowered Learner



## Empowered Learner

Students leverage technology to take an active role in choosing, achieving, and demonstrating competency in their learning goals, informed by the learning sciences.

### ISTE Domain

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

1.1.a



Students articulate and [set personal learning goals](#), develop strategies leveraging technology to achieve them and reflect on the [learning process](#) itself to improve learning outcomes.

1.1.b



Students [build networks](#) and [customize](#) their [learning environments](#) in ways that support the learning process.

1.1.c



Students [use technology](#) to seek feedback that informs and improves their practice and to [demonstrate their learning](#) in a variety of ways..

1.1.d



Students understand the [fundamental concepts](#) of technology operations, demonstrate the ability to choose, use and [troubleshoot](#) current technologies and are able to [transfer](#) their knowledge to explore [emerging technologies](#).



# Evaluating ISTE Standard: 1.1.A

## Rating Domain **1** (Empowered Learner) and Standard **1.1.A**

**Discipline: Information and Technology Literacy (ITL)**

**Content Area: Empowered Learner (EL)**

**Standard: EL1 - Students leverage digital tools and strategies to take an active role in choosing and achieving their learning goals.**

Learning Priority	Performance Indicators (By Grade Band)			
	K-2 (e)	3-5 (i)	6-8 (m)	9-12 (h)
<b>EL1.a: Set goals and reflect.</b>	<p>EL1.a.1.e: Identify the purpose of and set personal learning goals with educator guidance.</p>	<p>EL1.a.3.i: Create personal learning goals and select digital tools to achieve them.</p>	<p>EL1.a.5.m: Create personal learning goals and select and manage appropriate digital tools to achieve those goals.</p>	<p>EL1.a.7.h: Create and articulate personal learning goals and develop strategies leveraging the most effective digital tools to achieve those goals.</p>
	<p>EL1.a.2.e: Utilize appropriate digital tools to reflect on the learning process with educator guidance.</p>	<p>EL1.a.4.i: Utilize digital tools to reflect on and revise the learning process and make necessary revisions as needed to achieve goals with educator support.</p>	<p>EL1.a.6.m: Utilize digital tools to reflect on and revise the learning process and make necessary revisions as needed to achieve goals.</p>	<p>EL1.a.8.h: Utilize digital tools to reflect on the learning process, including successes, areas of improvement, and then make necessary revisions and adjust goals for future learning.</p>

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Students understand the [fundamental concepts](#) of technology operations, demonstrate the ability to choose, use and [troubleshoot](#) current technologies and are able to [transfer](#) their knowledge to explore [emerging technologies](#).

# Evaluating ISTE Standard: 1.1.B

## Rating Domain **1** (Empowered Learner) and Standard **1.1.B**

### Performance Indicators (By Grade Band)

K-2 (e)	3-5 (i)	6-8 (m)	9-12 (h)
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**EL1.b: Build network to support learning.**

EL1.b.1.e:  
Explore and identify digital tools to be used to connect with others to enhance their learning with educator guidance.

EL1.b.2.i:  
Select digital tools to help build a network of experts and peers to enrich the learning experience with educator support.

EL1.b.3.m:  
Identify and pursue online networks of experts and peers to support learning processes and outcomes.

EL1.b.4.h:  
Build a professional online presence to connect with experts and peers to enhance learning processes and outcomes and prepare for future endeavors.

# ISTE Domain 3: Knowledge Constructor

3







## Knowledge Constructor

Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others

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- |       |                                                                                     |                                                                                                                                                                                                                                                     |
|-------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.3.a |    | Students plan and employ effective <a href="#">research strategies</a> to locate <a href="#">information and other resources</a> for their intellectual or creative pursuits.                                                                       |
| 1.3.b |  | Students evaluate the <a href="#">accuracy</a> , <a href="#">perspective</a> , <a href="#">credibility</a> and <a href="#">relevance</a> of information, media, data or other resources.                                                            |
| 1.3.c |  | Students <a href="#">curate</a> information from digital resources using a <a href="#">variety of tools</a> and methods to create <a href="#">collections of artifacts</a> that demonstrate <a href="#">meaningful connections or conclusions</a> . |
| 1.3.d |  | Students <a href="#">build knowledge</a> by actively <a href="#">exploring</a> real-world issues and problems, developing ideas and theories and pursuing answers and solutions.                                                                    |

# Evaluating ISTE Standard: 1.3.A

## Rating Domain **3** (Knowledge Constructor) and Standard **1.3.A**

	Performance Indicators (By Grade Band)			
Learning Priority	K-2 (e)	3-5 (i)	6-8 (m)	9-12 (h)
<b>KC1.a: Plan and employ effective research strategies.</b>	KC1.a.1.e: Utilize knowledge of the alphabet to search and use databases; use basic keyword search techniques to locate information.	KC1.a.4.i: Explore and use different keyword searches such as using multiple words, synonyms, and alternative words and phrases; and refine searches by drawing inferences to explain search results.	KC1.a.7.m: Demonstrate and practice a variety of search strategies for effective and efficient online searches.	KC1.a.10.h: Apply safe and effective search strategies across a range of diverse resources.
	KC1.a.2.e: Utilize digital tools and resources contained within a classroom platform or otherwise provided by the educator, to find information on topics of interest.	KC1.a.5.i: Collaborate with an educator to employ appropriate research techniques to locate and access print and digital resources that help in the learning process.	KC1.a.8.m: Demonstrate and practice the ability to effectively utilize research strategies to locate and access appropriate print and digital resources in support of learning.	KC1.a.11.h: Plan and employ effective research strategies to locate and access information and other resources for intellectual or creative pursuits.

# Activity

Q&A while people are doing their Self-Assessment

ISTE Rubrics: <https://bit.ly/iste-gain>

Practice doing a self-assessment:

**<https://bit.ly/iste-gain-rating>**

# LINKS OF THE 3 SELF ASSESSMENTS

## DigComp Assessments

- Ikanos – <https://ikanos.eus/en/ikanos-model/audit/ikanos-test/>
- Digital Skills Radar - <https://www.digitalskillsaccelerator.eu/radar/>  
(Shortcut is <https://bit.ly/gain-digcomp6>)
- Digital Competence EU - <https://digcomp.digital-competence.eu/digcomp/survey/qid-1421/>  
(Shortcut is <https://bit.ly/gain-digcomp>)

# Summary

- DigComp 2.0 has 5 competence areas and 21 competencies
- ISTE has 7 domains with 4 standards each for a total of 28 standards
- ISTE does not come with rubrics, but some are available such as the Wisconsin Digital Standards (<https://bit.ly/iste-gain-rating>)
- There are many learning resources and assessments aligned to ISTE, using the ISTE seal of approval (<https://www.iste.org/standards/iste-seal-of-alignment>)