The background of the top half of the page is a photograph of a classroom. Three students are in the foreground, looking at a laptop. A teacher is visible in the background, standing near a chalkboard. The scene is brightly lit and shows a collaborative learning environment.

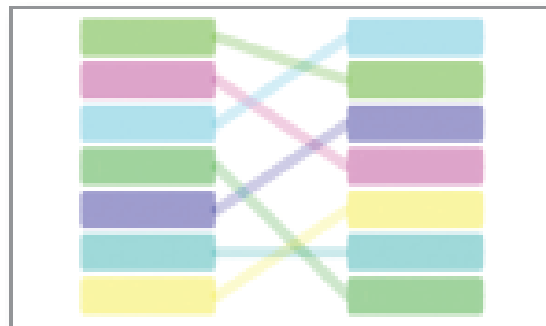
# A Web Site for 21st Century Teaching

Intel® Education provides free professional development, online tools, and resources that help K-12 teachers engage students with effective use of technology promoting problem-solving, critical thinking, and collaboration skills.

[www.intel.com/teachers](http://www.intel.com/teachers)

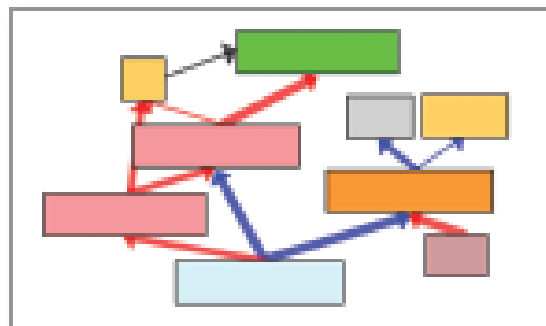
## Online Thinking Tools

Based on research that demonstrates the value of visual representation to help teachers gauge student understanding and students to direct their own learning.



### VISUAL RANKING TOOL

With *Visual Ranking*, students identify and refine criteria as they assign order or ranking to a list. They explain their reasoning and compare work in a visual diagram. This tool supports activities where students need to organize ideas, debate differences, and reach consensus.



### SEEING REASON TOOL

With *Seeing Reason*, students create visual maps of the factors and relationships in a cause-and-effect investigation. These maps make thinking visible and promote collaboration as students work together to refine their understanding.

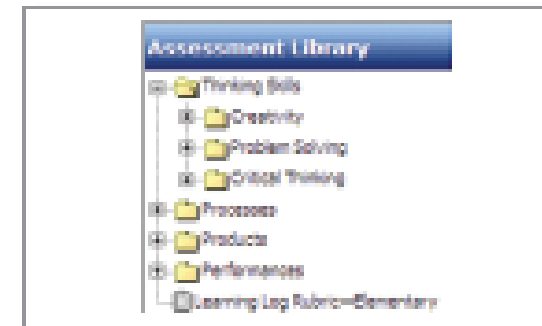


### SHOWING EVIDENCE TOOL

With *Showing Evidence*, students learn how to construct well-reasoned arguments and prove their case with credible evidence. This thinking tool supports activities where students debate differences, make and defend decisions, and analyze conflicting information.

## 21st Century Teaching Resources

A collection of online resources to help teachers play a critical role in facilitating learning activities and posing questions to take student thinking deeper.



### ASSESSING PROJECTS

*Assessing Projects* helps teachers create assessments that address 21st century skills and provide strategies to embed assessment throughout learning so that students understand content more deeply, think at higher levels, and become self-directed learners.



### DESIGNING EFFECTIVE PROJECTS

*Designing Effective Projects* includes a collection of exemplary Unit Plans that integrate technology into classroom projects. Units align to standards and promote higher-order thinking using Curriculum-Framing Questions, authentic project tasks, effective instructional strategies, and performance assessment.



### HELP GUIDE

The Intel® Education *Help Guide* provides step-by-step instructions for hundreds of productivity tasks in user-friendly, non-technical language. Visual images accompany each step to show how it's done. Find strategies for promoting technology literacy and supporting English language learners.

Find free, easily integrated tools to support collaborative, student-centered learning.

Online *thinking tools* provide active learning places that elevate students' engagement with content to analysis/synthesis levels of higher-order thinking.

Tools and resources enhance teachers' existing curricula, supporting all K-12 subjects.

Teaching resources include exemplary lesson plans, assessment strategies, and technology-enriched project ideas. Developed by educators for educators, these resources support 21st century learning.

## Engaging, Online Professional Development Intel® Teach Elements Courses

Explore 21st century learning concepts through a series of compelling online courses that use interactive eLearning tutorials. Designed for teachers with intermediate technology skills, there are no prerequisites and courses are available to anyone, anywhere.



### ASSESSMENT IN 21st CENTURY CLASSROOMS

Learn to plan, develop, and manage student-centered assessment to benefit students' learning.



### COLLABORATION IN THE DIGITAL CLASSROOM

Follow a framework for designing authentic, meaningful projects that build collaboration skills, essential for the 21st century.



### PROJECT-BASED APPROACHES

Explore ideas and try new approaches that engage students with self-directed learning.



Find free courses to take immediately online, order free CDs for offline viewing, and access facilitation materials at [www.intel.com/education/elements](http://www.intel.com/education/elements)

### THINKING CRITICALLY WITH DATA

Design student projects and assessments that address critical thinking skills when collecting and analyzing data.



### EDUCATIONAL LEADERSHIP IN THE 21st CENTURY

Explore how education leaders can support teacher effectiveness to improve student achievement. See examples of best practices and develop strategies.





"As my students collaborate together, they learn to appreciate diversity and to become problem solvers. Student discipline has improved as Intel has trained me in student accountability methods such as peer/self assessment forms, providing checklists, and designing rubrics. Creativity abounds, instruction is differentiated to accommodate all learning styles, and cooperation becomes a skill of ease. Students are immersed in activities they truly enjoy."

- Susan Monday, Alabama

## Transforming K-12 Education

To support K-12 educators in transforming their classrooms to a 21st century, technology-rich learning environment for students, we provide free programs and resources—by educators for educators—focused on the following topics:

- **Professional Development:** High-quality teacher professional development programs for 21st century skills.
- **Assessment:** Effective assessment of 21st century skills and core content to help students think at higher levels and become self-directed learners.
- **Project-Based Approaches:** New ways to engage students in meaningful and authentic learning experiences.
- **Thinking Tools:** Online tools to help students represent their thinking visually, collaborate with peers, and support conclusions.
- **Digital Literacy:** Resources to support the use of digital tools in teaching and learning.
- **Science, Technology, Engineering, and Mathematics (STEM):** Curriculum and online resources to encourage students' participation in STEM areas.



We invite all educators to share their strategies and best practices.

## Teachers Engage Online Community

Intel® Education Teachers Engage is a global online community of educators that supports research-based best practices in effective use of technology, project-based approaches, and assessment of 21st century skills.

### WHY SHOULD YOU JOIN?

- Learn about Web 2.0 tools and how to effectively use them in the classroom
- Network with educators worldwide
- Be informed on ed tech policies and share your input
- Engage in community activities for opportunities to win cool technology gadgets for your classroom
- Participate in our webinars or host your own in the community
- Create a group to support your next Intel® Teach training (blogs, collaborative work space, wikis... all in one spot)

Stay engaged in 21st century learning at <http://engage.intel.com>

(log in with your thinking tools credentials, or register for free access)

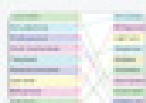
## Opening Doors Through Education

As a global technology leader, Intel is committed to enhancing lives by accelerating access to uncompromised technology for everyone, anywhere in the world. We believe that students deserve the skills needed to become the next generation of innovators. To this end, our involvement in education is long-standing and profound.

### Free Tools and Resources from Intel® Education

Intel offers free, easily integrated tools and teaching resources to support collaborative, student-centered learning. Our online thinking tools provide active learning places where students can engage in robust discussions, analyze complex information, pursue investigations, and solve problems. You'll also find teaching resources such as exemplary lesson plans, assessment strategies, and technology-enriched project ideas for all K-12 subjects. Developed by educators, these free tools and resources support 21st century learning, with project-based approaches in the classroom.

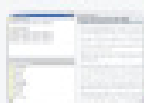
#### Featured Education Tools and Resources



##### Visual Ranking Tool

Identify and refine criteria for assigning a ranking to a list. Then debate differences, reach consensus, and organize ideas.

• [Visual Ranking](#)



##### Assessing Projects

Develop or create your own strategies for student-centered assessments.

• [Assessing Projects](#)



##### Seeing Reason Tool

Investigate relationships in complex systems, and create maps that communicate understanding.

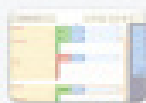
• [Seeing Reason](#)



##### Intel® Teach Elements Professional Development

New series of online courses that provide deeper exploration of 21<sup>st</sup> century learning concepts.

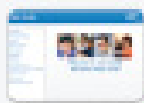
• [Assessment in 21<sup>st</sup> Century Classrooms and Project-Based Approaches](#)



##### Showing Evidence Tool

Construct well-reasoned arguments that are supported by evidence, using a visual framework.

• [Showing Evidence](#)



##### Help Guide

Find strategies to promote technology literacy using just-in-time instructions.

• [Help Guide](#)

For more information, visit [www.intel.com/education](http://www.intel.com/education)

## Empowered Teachers Change Lives

Access our free tools, resources, and professional development courses  
at [www.intel.com/teachers](http://www.intel.com/teachers)

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