Teaching Complex Thinking Survey

The NMC Horizon Report: 2015 K-12 Edition (http://cdn.nmc.org/media/2015-nmc-horizon-report-k12-EN.pdf) lists nine wicked problems in education. We are attempting to address one of those wicked problems: teaching complex thinking.

Complex thinking involves skills such as discerning patterns, communication, problem solving, and visualization skills. These skills drive innovation.

* Required

1. What is your role in your school? *
Mark only one oval.
Teacher
Administrator
Technology specialist
Support staff
Counselor
Office support
2. Which content area do you teach? Choose the most appropriate answer. *
Mark only one oval.
I am not a teacher
Foreign Language
Specialty area (art, dance, music, physical education, etc.)
Media Specialist
Elementary classroom teacher
Math
Science
English
Social Studies
Technology Integration
Special educator, Title 1 educator, ESL educator, or other Interventionist

3. If an educator, which grade level do you teach? Choose the most appropriate answer. * Mark only one oval.
I am not a classroom teacher.
Preschool
Elementary School
Middle School
High School
Higher Education
Availability and Use of Technology
4. How often do you integrate technology in your classroom? *
Mark only one oval.
Every day
A few times a week
Once a week or less
A few times a month
Rarely
I am not a classroom teacher.
5. What technology is available to you at your school/building? Check all that apply. * Check all that apply.
1 to 1 technology of iPads or laptops
iPad or laptop carts available for checking out
Computer labs/media centers available for checking out
iPads or laptops stored in the classroom, but not enough for every student
Other:
Familiarity & Experiences With Teaching Complex Thinking
6. Were you introduced to the concept/wicked problem of teaching complex thinking (NOT critical thinking) in your teacher preparation program, graduate school, professional development or other continued education opportunities? * Mark only one oval.
Yes, I learned about complex thinking in my teacher preparation or continued education.
Yes, I learned about it through my own interests/personal research.
I have heard of it before, but I never have truly learned about it.
I do not recall ever learning about complex thinking or teaching complex thinking.
Other:

1 2 3 4 5 Not familiar at all
Not familiar at all Very familiar
. How challenging is it to teach complex thinking? * Mark only one oval.
1 2 3 4 5
Least challenging Most challe
9. How effective is your content area in teaching complex thinking? * Mark only one oval.
1 2 3 4 5
Least effective Most effective

Difficulty in Addressing Complex Thinking Skills

For our purposes:

visualization skills = creating charts, diagrams, and infographics that represent their learning inference skills = discerning patterns, making predictions, etc.

computational thinking skills = problem solving using algorithms - across all disciplines, including math, science, and humanities

11. For each of the following complex thinking skills or teaching methods, please indicate how difficult you feel it is to incorporate them in your classroom.*

Check all that apply.

	Very difficult	Somewhat difficult	Not difficult at all
Technology integration			
Problem solving skills			
Communication skills			
Visualization skills			
Opportunities for student innovation			
Opportunities for collaboration			
Inference skills			
Computational thinking skills			
Authentic opportunities for inquiry			
Opportunities for student choice			
Opportunities for creativity			
Engagement with real world issues and problems			
Coding / computer science			
Problem based learning			

12.	. Which complex thinking skills do you think are the most important for students to develop to
	become successful 21st century thinkers? Select up to three. *

Check all that apply.

Technology integration
Problem solving skills
Problem based learning
Communication skills
Visualization skills
Opportunities for student innovation
Opportunities for collaboration
Inference skills
Computational thinking skills
Authentic opportunities for inquiry
Opportunities for student choice
Opportunities for creativity
Engagement with real world issues and problems
Coding / computer science

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