

TECHNOLOGY TOOLKIT TO SUPPORT REPRESENTATION FOR MATH CONTENT

Acknowledgments

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Provide Options for Comprehension	
Options that provide or activate background knowledge Example: Advance organizers such as charts; poster method.	
Kids' Zone Create A Graph	http://nces.ed.gov/nceskids/createagraph/default.aspx?ID
Education Place Graphic Organizers	http://www.eduplace.com/graphicorganizer/
Periodic Table of Visualizations	http://www.visual-literacy.org/periodic_table/periodic_table.html
Ed TED Periodic Tables	http://ed.ted.com/periodic-videos
Time Rime	http://timerime.com
Notes:	
Options that highlight critical features, big ideas, and relationships Example: Cueing or highlighting important features to make them explicit, using graphic organizers.	
Math Manipulative's	http://nlvm.usu.edu/en/nav/vlibrary.html
Education Oasis	http://www.educationoasis.com
iSolveIt	http://isolveit.cast.org/home
Doceri	http://doceri.com/
Resources for Teaching Math	http://illuminations.nctm.org/
Time for Time	http://www.time-for-time.com/swf/myclox.swf
Graphing Stories	http://graphingstories.com
Notes:	
Options that guide information processing Example: Breaking a task down into smaller, sequential steps.	
Khanacademy	https://www.khanacademy.org/

Provide Options for Comprehension

CoolMath4Kids	http://www.coolmath4kids.com/numbermonster/classic/index.html
Doorway Online	http://www.doorwayonline.org.uk
National Library of Math Manipulatives	http://nlvm.usu.edu
Conceptua Math	http://www.conceptuamath.com
Adapted Mind	http://www.adaptedmind.com/index.php
Math Playground	http://www.mathplayground.com
AAA Math	http://aaamath.com/mny.htm
IXL Math	https://www.ixl.com/math/
PBS Cyberchase	http://pbskids.org/cyberchase/
Math.com The World of Math Online	http://www.math.com
Super Teacher Worksheets	https://www.superteacherworksheets.com
XtraMath	https://xtramath.org/#/home/index
ShoDor	http://www.shodor.org/home/
Introduction to Primary Students	http://mathforum.org/varnelle/krods.html
Thinking Blocks	http://www.mathplayground.com/thinkingblocks.html
Math TV	http://www.mathtv.com/#
TenMarks	http://www.tenmarks.com

Notes:

Options that support memory and transfer Example: Checklists, graphic organizers, concepts maps, linking to previous knowledge.

Logotron	http://www.r-e-m.co.uk/logo/?comp=twp&html=gallery.html
Sheppard Software	http://www.sheppardsoftware.com/math.htm
Quizlet	http://quizlet.com

Provide Options for Comprehension

WebMath	http://www.webmath.com
Graph Sketch	http://www.graphsketch.com
Math in Daily Life	http://www.learner.org/interactives/dailymath/index.html

Provide Options for Language and Symbols

Options that define vocabulary and symbols Example: Paper or digital dictionary and thesaurus tools, pre-teaching vocabulary, embedding vocabulary support in texts.

A Maths Dictionary for Kids	http://www.amathsdictionaryforkids.com/dictionary.html
The Math Forum	http://mathforum.org/dr.math/
Harcourt Math Glossary	http://www.hbschool.com/glossary/math2/

Notes:

Options that illustrate through multi media Example: Using illustrations, diagrams, charts to help illustrate concepts.

Illuminations for Math	http://illuminations.nctm.org
MathTools	http://mathforum.org/mathtools/
AAA Math	http://www.aaamath.com
HoodaMath	http://www.hoodamath.com
Function Visualizer	http://www.abhortsoft.hu/functionvisualizer/functionvisualizer.html
FooPlot	http://fooplot.com

Notes:

Provide Options for Perception

Options that customize the display of information Example: Changing text and background color, font, and font size, sound volume, speed, to suit the user's needs.

INCOMPETECH	http://www.incompetech.com/graphpaper/
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Provide Options for Perception	
Grizzly	http://gridzzly.com/
GeoGebra	http://www.geogebra.org
Notes:	
Options that provide alternatives for visual information Example: Providing a text or auditory version of the same information.	
Max's Math Adventure	http://teacher.scholastic.com/max/hairy/index.htm
Notes:	