

00:16:43 Cindy Bryant: Hello from Springfield, MO.
00:16:54 Trena Wilkerson: Hello From Waco, TX via Philadelphia, MS
tonight!
00:16:58 Sheila Kirton-Robbins: Hi from Nashville, NC
00:17:05 Catherine Bronikowski: Hi from Milwaukee, WI
00:17:07 Esther Winikoff: hello from Pittsburgh!
00:17:08 Jennifer Eaton: Hi from San Diego
00:17:11 Kelli Freiwald: hello from PA
00:17:11 Tanya Landry: Hi from Baton Rouge, LA!
00:17:13 Regina Williams: Hello from Miami, Florida
00:17:14 Jorge Veloso: Hi from Angola.
00:17:14 Macobia Harris: Hi from Desoto, TX
00:17:17 Natasha Gambarov: Hello from Boston, MA
00:17:19 Denise Beavers: Hello from Tennessee
00:17:19 Megan Riley: Hello from Ohio!
00:17:20 Kelly Sotsky: Hi from NJ!
00:17:22 Sheila Bishop: Hello from NH
00:17:22 kim bolf: Hi From Duluth MN
00:17:23 Jaclyn Murray: Hi from Cumming, GA!
00:17:23 LANY JAMERO: good morning from philippines
00:17:24 Kellie Hammett: Hi from Indiana!
00:17:24 dana dulzo: hello from dana in novi mi
00:17:25 Kendra Heffelbower: Hi from DC!
00:17:25 Andrea Graziano: Hi from Baltimore, Mayland!
00:17:25 Janice Magauay: Hello from Maryland
00:17:26 Catherine Bertrand: Hello from IN
00:17:26 Melonie Smith: Hello from Chicago
00:17:26 Dale Pasino: Worcester, MA!
00:17:28 Judy Radigan: Hi fromMaine!
00:17:28 jennifer SMITH: hello from Vista, Ca
00:17:28 Olga Kosheleva: Hello, from El Paso, TX
00:17:29 Lorie Huff: Hello from Fayetteville,Arkansas
00:17:29 Ana Guerrero: Hello from IL
00:17:30 Jenny Sagrillo: Hello from Milwaukee, WI
00:17:30 Shannen Bunoski: Hi from Bethany Beach, DE!
00:17:30 CATHY SMITH: Hello, From Maryland
00:17:31 Jamie Rossi: NY
00:17:31 Michelle Shirtcliff: Hello from Burbank, CA
00:17:32 Harriet Simand: Hi from Canada
00:17:33 Emily Kavanagh: Hello from Columbia, MD
00:17:34 Claire Dent: Macon GA
00:17:34 Christy Rose: Hello from rainy Alexandria, Va
00:17:35 Dalila Rivera: Hello from Kingsville,Tx
00:17:35 Josephine Romero: Hi from Dallas, Texas.
00:17:36 Wendyk Kraft: Hi from WA
00:17:36 Catherine Livesay: Hello from Rogersville, Tn.
00:17:37 Jacqueline Colbourne: Hi from Temple Hills MD
00:17:38 Moreno Tracy: Hello from Phoenixiville, PA
00:17:39 Robin Humberstad: Hello from Prosser, WA
00:17:40 Laura Archer: Hello from Monterey, CA!

00:17:40 Wendy Janerico: Hi from
00:17:40 Lori Fendel: Hi from Fort Wayne, IN
00:17:40 Stacie Kyhn: Hey howdy from Apache Junction, AZ!
00:17:42 Karoulin Aljoris: Hello all
00:17:43 kate killion: Hello from Clark NJ
00:17:43 Laura Semian: Hello from Sarasota, FL
00:17:43 Debbie Meaney: Hello from NC
00:17:43 Maral Aznavour: hello from Texas
00:17:44 Veronica Troup: Hi from Tennessee
00:17:44 Ann Adkins: Hi from Omaha, Nebraska!
00:17:45 Jeff Shih: hi from las vegas!
00:17:48 Imelda Valencia: Hello Everyone. From Maryland and a native
of the Philippines
00:17:48 Lesly Brown: Hello from Knoxville, Tennessee and Lesly.
00:17:48 Sharon Black: Good evening from sunny New Brunswick Canada
00:17:49 Karoulin Aljoris: MI
00:17:49 Aura Fortaleza: Good evening from Charles County MD
00:17:50 Amy Price: Hello from Ga
00:17:50 Rene McNeal: Hello from Tuscaloosa Alabama
00:17:50 Ann Assad: Hello from Paducah KY
00:17:50 Maria Reid: Howdy from Houston TX, Maria Reid
00:17:50 Rodney Cooper: Hello from Killeen Texas
00:17:51 Arlene Bachinela: Hello from Baltimore, MD
00:17:52 jacob waxenberg: Michigan
00:17:54 John Halmi: Hello from Annapolis, MD. Looking forward to
tonight's presentation!
00:17:55 Shelley Mosier: Hi from Shel in Lexington KY!!!
00:17:59 Susan Dahms: Hello from Ridgecrest, CA!
00:18:00 MAYLYN MAGNO: Good Morning From Davao City, Philippines
00:18:02 Dee Crowell: Hello from Texas!
00:18:06 Pamela Liegl: Hi from Pam in Streator, OL
00:18:08 Alana Roberts: Racine, WI :)
00:18:09 Wendy Janerico: Hi From Grafton MA
00:18:10 Cheryl Lowery: hello from tipton county
00:18:11 Carolyn Nelson: hello from Texas
00:18:12 jeanine colwell: hello from Newport NC
00:18:15 Angi Kelley: Hi from Eagar, AZ!
00:18:16 Ann Wycoff Bagshaw: Greeting from Fort Carson, Colorado
00:18:16 Chauntae Whitter: Hello from Bermuda
00:18:21 Valerie Vanderport: Hello from Everett, Wa
00:18:23 audrey west: hi from Lexington, KY
00:18:28 Rosalyn Bantay: Hello from Philippines
00:18:29 Mohamed T: Hi everyone ! Greetings from Mohamed, CT.
00:18:31 Joy Feinauer: Michigan!
00:18:31 Rita Shamrock: Hi from Rita in Senoia, GA
00:18:31 Angela Wilson: Good Afternoon from Angie in Arizona
00:18:32 Ann Swierzbin: Hello from Chelmsford MA
00:18:36 Catherine Doiron: Hi from MV, MA
00:18:40 Ramona Hall: Hello from Charlotte, NC
00:18:41 Laurie James: Aloha from Oahu

00:18:44 Dave Hankin: Hello again from Globe, Arizona!
00:18:45 Julie Hutchinson: Hi - Julie from New Jersey!
00:18:47 Alicia Kaplan: Hello from NYC
00:18:48 tracey simmons: Hello from Jamaica NY
00:18:49 Eunice Dimasangal: Morning from Indonesia
00:18:51 Nancy Davis: Hello from Atlanta
00:18:53 Lesley Collins: Hello from Manchester, Kentucky
00:18:55 Lorie Bell: Hello from NC
00:18:55 Daniel Irving: Hello from North Providence, RI!
00:18:57 Teresa Moore: MA
00:18:57 maureen prendergast: New Bern, NC
00:18:59 Mary Simmons-Chatmon: South Carolina
00:18:59 Ariel Beggs: Hi from Tucson, AZ!
00:18:59 Anupama Anand: hi from san jose california
00:19:00 Cheryl Lowery: west tennessee
00:19:02 Patricia Eberhardt: sunny AZ
00:19:02 peter zirnis: Hi from Etobicoke Ontario
00:19:02 Jessica Lindberg: Hi from Phoenix, Arizona!
00:19:02 Cindy Bryant: Please change your chat setting to All panelists and attendees so everyone can see your posts.
00:19:02 Allison Miller: West Virginia
00:19:03 Shashidhar Belbase: Hello from the UAE.
00:19:04 Nell Thurlow: Louisiana LA
00:19:12 Ellen Williams: Ellen - Kerrville, TX
00:19:12 Winnica McLean: Florida
00:19:15 Portia Felder: Greetings from Snellville, Georgia
00:19:17 Erica McCord: Good evening from SC
00:19:23 Susan Danskin: Hi from Ithaca, NY
00:19:24 Monique Greene: Hi from Ohio
00:19:26 Gloria Flores: Hello from Texas
00:19:26 Angelita Beltran: Hello from Waukegan, IL
00:19:26 Judith Montgomery: Hello from Judith in Santa Cruz , CA
00:19:28 Laura Semian: Hello from Sarasota, FL
00:19:30 Marian Johnson: Tucson, AZ
00:19:31 Linda Baker: Indiana
00:19:32 Julie Leporiere: Hi from California
00:19:32 Charese Chambers: Tennessee
00:19:33 Patricia Ferris: chicago
00:19:34 Joeleen Stanard: Woodstock, IL
00:19:34 Patricia Daugherty: From San Francisco, CA
00:19:36 Sherral Hartung: Hello from Seattle
00:19:36 Catherine Abbott: Beating the HEAT with NCTM!!!
00:19:36 Paul Fishwick: Dallas, tX
00:19:37 Derrick Johsnon: Maryland
00:19:37 Billy Sikes: Texas
00:19:37 Lindsay Ventura: Hello from Natick, MA!
00:19:39 Martisha Dunn: Richmond Virginia
00:19:39 Ma. Lorena Aloquina: Philippines here...
00:19:40 Wenny Liao: Hello from Portland, OR
00:19:40 Lotalinda Castro-Anderson: PHILADELPHIA!!!!

00:19:40 Tiffany Lace: Portland, OR
00:19:40 Carolyn White: Hello from Houston,Texas
00:19:40 Lynn Rakatansky: Hello from Providence, RI.
00:19:40 Jacquelyn Wardlow: Hello from San Antonio, TX
00:19:41 Margaret Matheson: Hello from Calgary, Alberta (Canada)
00:19:42 Christopher Eddy: Columbia, SC
00:19:44 Kristin Frerichs: Crystal Lake IL
00:19:46 Delores Rushing: Hello all, Dee Rushing from Washington, DC
00:19:48 Claudia Cooper: C. Cooper from Maryland
00:19:50 Mary Beth Kilnoski: Nebraska
00:19:51 Shannen Bunoski: Bethany Beach, DE! Looking forward to the
webinar!
00:19:53 Cris Armada: good morning everyone... I'm from Philippines...
00:19:56 Vanessa Stokes: Hello From Chicago Area!
00:19:57 Eduardo Enjambre: Hello from Upper Marlboro, Maryland.
00:19:58 Alejandra Murillo: Hello From HONDURAS
00:20:02 Douglas Steinbronn: Southern California.
00:20:09 Vicki Clancy: Hello from Orcas Island
00:20:10 Payal Arora: Hello from DC
00:20:12 Sun Lee: Hello from Los Angeles!
00:20:13 Dasha Layne: Hello from MA
00:20:19 WARA SABON DOMINIKUS: greeting from Kupang Indonesia
00:20:21 dawnfurstenberg: hello from portland oregon
00:20:23 Janice Novakowski: Hello from Vancouver, BC, Canada
00:20:24 Polly Mayer: Polly from Bay Area, California
00:20:32 Alison Jo Frost: Hello from Beckley WV
00:20:34 Sumedha Kumar: hello from New Jersey!
00:20:34 Mary France Imperial: Hello from Philippines
00:20:37 Brenda Silkman: Brenda from Waite Park, MN
00:20:45 Michelle Voorhees: Hello from Aptos, CA
00:20:49 Aycan Yilmaz: Hi Aycan Yilmaz from New York
00:20:51 Cindy Bryant: Please set your chat to All panelists and attendees
so everyone can see your posts.
00:20:53 Lance Brauchla: Hello from Ege, IN
00:20:56 Todd Smallcanyon: Southern Utah
00:21:00 Lauren Davenport: Hello from PA.
00:21:07 Abigail Santiago: Hello from Kentucky
00:21:07 Nora Marasigan: Hello from Philippines
00:21:11 Penina kamina: Hi from Oneonta NY
00:21:16 Christina Fallstick: Philadelphia, PA
00:21:16 Cindy Bryant: Please set your chat to All panelists and attendees
so everyone can see your posts.
00:21:17 John Sasko: Good evening from Mt Vernon NY - I work in the Bronx
public schools
00:21:31 Rachel Smith: Tulsa, OK
00:21:36 Eric Von Valdez: Im from Jeddah KSA
00:21:43 Jennifer Heldenbrand: Hello from Provo, Utah
00:21:50 Helen Gamova: Hello from Columbus, OH
00:21:56 Jennifer Smith: Hello from Annapolis, MD
00:21:58 J AvH: Hello from Minneapolis

00:21:59 Jillane Moulden: Good evening from the eastern shore of
Maryland

00:22:08 Konnie Guthrie: Hi from Las Vegas

00:22:08 Elba Howington: Good evening from Orange Park, FL

00:22:09 rachel wingo: Hello from Kentucky

00:22:16 Jet Yeung: Hello Everyone--Jet from Henderson, Nevada

00:22:27 Christina Siow Young: HI from California

00:22:30 Lianfang Lu: Hello from Little Rock

00:22:30 Catherine Abbott: I love using Mondrian with my students. Easy
project using Google Slides. Mondrian works well with fractions, areas, and ratios
and proportions.

00:22:32 Chris Suurtamm: Welcome from Ottawa, Canada

00:22:35 Gladys Montoya: Hi from Zion, IL!

00:22:53 Carmelita Nalzarro: Hi from Jeddah, Saudi Arabia

00:23:01 Judy Lamoreux: Picasso

00:23:02 Stacie Kyhn: Escher

00:23:02 Jennifer Eaton: MC Escher

00:23:03 Laura Semian: escher

00:23:04 Ann Wycoff Bagshaw: Picasso

00:23:04 dana dulzo: Picasso

00:23:06 Jennifer Hahn: Escher

00:23:06 dawnfurstenberg: picasso

00:23:06 Catherine Abbott: Mondrian

00:23:06 Rachel Smith: Escher

00:23:07 Julie Leporiere: Mondrian

00:23:07 Catherine Bronikowski: Escher

00:23:07 Margaret Matheson: Escher

00:23:07 maureen prendergast: davinci

00:23:07 Michelle Voorhees: MC Escher

00:23:08 Judy Radigan: Suarat

00:23:08 Sheila Kirton-Robbins: MC Escher

00:23:08 Antoinette Nista: escher

00:23:08 Greisy Winicki Landman: Da Vinci

00:23:09 Catherine Tung: Sol Lewitt

00:23:10 dawnfurstenberg: mondrian

00:23:10 K Kishida: kandinsky

00:23:10 dana dulzo: Escher

00:23:10 Patricia Ferris: segat

00:23:10 Ann Swierzbin: Escher

00:23:11 Libby Kappler: Mondrian

00:23:11 Natasha Gambarov: da vinci

00:23:12 Macobia Harris: Picasso

00:23:12 Donna Misciagna: MC Escher

00:23:12 Sun Lee: Mondrian

00:23:12 John Halmi: rothke

00:23:12 Linda Baker: picasso

00:23:13 Emily Kavanagh: Picasso

00:23:13 Aura Rodriguez: hello, Aura Rodriguez from Montebello Unified

00:23:14 Sharon Black: Escher

00:23:14 Noe Eugenio: Escher

00:23:14 Pamela DiBiase: Mondrian
00:23:14 Christy Rose: da vinci
00:23:14 dawnfurstenberg: seurat
00:23:14 Cathy Cohn: Frank Lloyd Wright
00:23:15 Joeleen Stanard: Picasso
00:23:15 Polly Mayer: Iznik tiles
00:23:15 Marian Johnson: Mondrian
00:23:15 Christopher Eddy: Da Vinci or Picasso
00:23:15 Emily Kavanagh: Monet
00:23:16 Lesley Collins: Picasso
00:23:17 Payal Arora: Picasso, Mondrain
00:23:18 Anupama Anand: picasso da vinci
00:23:18 Delia Kelly: Kandinsky!
00:23:18 Sharon Black: DaVinci
00:23:19 Patricia Daugherty: Sol LeWitt
00:23:19 Rodney Cooper: Cooper
00:23:19 Nadine Richards-Ramsey: Da Vinci
00:23:20 Cindy Bryant: Escher
00:23:21 Aura Rodriguez: Diego Rivera
00:23:21 Charese Chambers: Dali
00:23:21 Robin Ward: jasper johns
00:23:22 Martisha Dunn: Monet
00:23:23 Laura Archer: O Keefe
00:23:23 Libby Kappler: Calder
00:23:23 Janice Magauay: Da Vinci
00:23:23 Lance Brauchla: Echer
00:23:24 Sharon Black: Picasso
00:23:24 Kellie Hammett: Escher
00:23:25 Antoinette Nista: Chihuly
00:23:26 Maria Reid: Escher
00:23:26 Andrea Graziano: Mondrian , Escher,
00:23:26 Xen McCoy: van gogh
00:23:26 Jacqueline Colbourne: Monet
00:23:26 Lesley Collins: Monet
00:23:26 Catherine Livesay: Picasso
00:23:27 Carolyn White: Mondrian
00:23:27 Elizabeth Barlow: Escher
00:23:27 Sun Lee: Pollack
00:23:27 Sumedha Kumar: of course Kandinsky
00:23:28 Michelle Voorhees: Islamic Tiling
00:23:28 Laura Semian: geometry
00:23:28 Brandi Sidley: Matisse
00:23:28 Janice Magauay: Escher
00:23:29 Sharon Black: Geometry
00:23:29 Ann Wycoff Bagshaw: Walker
00:23:29 Andrea Graziano: Geometry
00:23:29 Jennifer Eaton: Proportions
00:23:29 John Halmi: geometry
00:23:29 dawnfurstenberg: fractions
00:23:30 Lori Fendel: Frank LLoyd /wright

00:23:30 Julie Leporiere: Geometry
 00:23:30 Barbara Lambert: geometry
 00:23:30 Jacqueline Colbourne: Symmetry
 00:23:30 Kellie Hammett: Geometry
 00:23:30 Carmelita Nalzaró: Picasso
 00:23:31 Erica McCord: Geometry
 00:23:31 Emily Kavanagh: Abstract
 00:23:32 Margaret Matheson: Angles
 00:23:32 Cathy Cohn: Patterns, geometry
 00:23:32 Christy Rose: ratio
 00:23:32 Patricia Ferris: geometry
 00:23:32 Stephanie Bernabe: shapes
 00:23:32 Libby Kappler: area and perimeter
 00:23:33 maureen prendergast: ratios
 00:23:33 Jennifer O'Connell: fractions
 00:23:33 TINA LATTIMER: proportions
 00:23:33 Laura Archer: symmetry
 00:23:33 Alicia Crawford: geometry
 00:23:33 Julie Leporiere: symmetry
 00:23:33 Abigail Santiago: Fractals
 00:23:34 dana dulzo: Shapes, geometry
 00:23:34 Teresa Moore: Geometry
 00:23:34 Janice Magauay: symmetry
 00:23:34 Cathy Cohn: symmetry
 00:23:34 Marian Johnson: parallel lines
 00:23:34 Laura Semian: proportions
 00:23:34 Donna Misciagna: Transformations
 00:23:34 Heidi Johnson: geometry
 00:23:35 Stacie Kyhn: Geometric
 00:23:35 Shonel fraser: ratios
 00:23:35 Elizabeth Barlow: Tessallations
 00:23:35 Robin Ward: patterns
 00:23:35 Lori Fendel: Geometry
 00:23:35 Christina Siow Young: dilation
 00:23:35 Libby Kappler: geometry
 00:23:35 Judy Radigan: Shapes
 00:23:35 Macobia Harris: Geometry
 00:23:36 Sharon Black: Shapes
 00:23:36 Paul Fishwick: Just about all math
 00:23:36 Lance Brauchla: Symmetry
 00:23:36 Joann Minner: Transformations
 00:23:36 Cathy Cohn: balance
 00:23:36 Rachel Smith: Tesselation
 00:23:36 Ana Guerrero: geometry
 00:23:36 Patricia Daugherty: Geometry and Algebra
 00:23:37 Imelda Valencia: Geometry
 00:23:37 Greisy Winicki Landman: Torres Garcia - golden ratio
 00:23:37 K Kishida: conic sections
 00:23:37 Polly Mayer: Pattern ratio
 00:23:38 Kathryn Swartzenberg: ratios

00:23:38 Susan Danskin: Transformational geometry
00:23:38 Wendy Kraft: geometric shapes
00:23:38 Macobia Harris: Angles
00:23:38 Alicia Crawford: fractions
00:23:38 Aura Fortaleza: proportions
00:23:38 Anupama Anand: angles, translations
00:23:38 Lesley Collins: Geometry
00:23:40 Janice Magauay: tessallations
00:23:40 Sharon Black: patterns
00:23:40 Antoinette Nista: ratios
00:23:40 Lesley Collins: summetry
00:23:40 John Sasko: proportion
00:23:41 Maria Reid: Tesellations
00:23:41 Natasha Gambarov: algebra and geometry
00:23:41 Elba Howington: geometry
00:23:41 Jacqueline Colbourne: Ratios
00:23:41 Claire Dent: Pythagorean spirals
00:23:42 Payal Arora: Geometry
00:23:42 Martisha Dunn: geometry
00:23:42 Cindy Bryant: transformations
00:23:42 Amy Price: geometry
00:23:43 Xen McCoy: golden ratio
00:23:44 Linda Baker: geometry repeating shapes
00:23:44 Sumedha Kumar: symmetry
00:23:44 Jennifer O'Connell: reflections
00:23:45 Gil Geeran Bangeles: Modulo Art
00:23:45 Antoinette Nista: proportions
00:23:45 Cathy Cohn: fractions
00:23:47 Cathy Cohn: ratios
00:23:47 Penina kamina: geomerty
00:23:48 Angela Wilson: Yes, to all
00:23:48 Rachel Smith: All math
00:23:50 Amy Price: tessalations
00:23:51 Joann Minner: Pythagorean Theorem
00:23:52 Pamela Goff: Fibonacci sequence
00:23:52 Patricia Ferris: fibonnaci
00:23:53 Christopher Eddy: Just look at the golden ratio
00:23:56 Brenda Silkman: proportionality
00:23:57 Kim Taylor: scale and similarity
00:24:03 Ann Assad: Perspective
00:24:03 Polly Mayer: Fibonaci numbers
00:24:06 Delores Rushing: Van Gogh
00:24:08 Catherine Abbott: Hokusai (Japanese wave)
00:24:09 Catherine Livesay: geometry, proportions
00:24:14 Lesly Brown: patterns and proportions
00:24:24 Laura Semian: the stained glass is great... I've done that...
00:24:29 Alison Jo Frost: This is a wonderful lesson
00:24:44 David Barnes: <https://tinyurl.com/y4fnd88a>
00:24:44 Janice Magauay: My students did that too
00:24:49 Sheila Kirton-Robbins: Great lesson!

00:24:52 Laura Semian: thanks for the link
00:25:28 Laura Semian: good points about the rulers
00:25:47 Sharon Black: love it
00:25:48 Libby Kappler: I LOVE the stained glass activity and often do more than one throughout my unit
00:25:51 Jeff Shih:
<https://docs.google.com/document/d/15msoGOT0nd-LKYTXaUeC0IjBR98E2YopGsiyXIce1KY/edit>
00:25:55 Chris Suurtamm: wow - beautiful!
00:26:22 Delores Rushing: Wow! Beautiful
00:26:34 Laura Semian: what an awesome class to get to teach!
00:26:37 Kathi Holland: Hello from Mountain Home, Idaho
00:26:55 Emily Kavanagh: Nice pic captured
00:27:19 Delores Rushing: Geometry is wonderful! It's all around us!
00:27:32 Karoulin Aljoris: what was the name of magazine?
00:27:48 Joann Minner: Hello from Minerva, Ohio
00:28:09 Taryn Brown: Hello from Jackson, MS
00:28:18 Heidi Johnson: +Good Evening from Spring Hill Fl
00:28:32 EILEEN BERNARD: Hello from New York
00:28:34 PALOMA CARRERA-ANDINO: Hi from El Paso, Tx
00:28:38 Catherine Abbott: You can bet that the students in that class remember the Artist AND the math. Cool
00:28:44 Laura Semian: big time help with engagement
00:28:44 Tom Litwinowicz: Hello from Cleveland, Ohio
00:29:29 Laura Semian: thanks for sharing!
00:29:37 dana dulzo: anyone else having a problem loading the
<https://tinyurl.com/y4fnd88a>
00:29:46 Joeleen Stanard: exciting!
00:29:53 Emily Kavanagh: That is good to know
00:30:01 Catherine Livesay: That's great because I think we will be distance learning.
00:30:02 Angi Kelley: I am also have issues with the tinyurl
00:30:12 Jennifer Smith: Use this:
<https://docs.google.com/document/d/15msoGOT0nd-LKYTXaUeC0IjBR98E2YopGsiyXIce1KY/edit>
00:30:13 Chonda Long: The recording and resources will be available tomorrow at www.nctm.org/100
00:30:17 Alison Jo Frost: @Dana – It worked for me but I also have a file,
00:30:24 Sharon Black: @dana d yes it will not load
00:30:33 Dave Hankin: the tiny url doesn't work...
00:30:40 Carmelita Nalzarro: love the color combination, it motivates
00:30:47 Cindy Bryant: The Tinyurl was inadvertently typed as tinyrul...
00:30:51 Laura Semian: remember Studio Line by L'Oreal... shampoo, etc?
00:31:01 Alison Jo Frost: Yes
00:31:08 Laura Semian: Mondrian all the way! ;)
00:31:14 Betty Stallings: Sorry, a little late, Portsmouth, VA
00:31:23 Cheryl Lowery: myI teach special education geometry
00:31:33 Cheryl Lowery: my students love doing string art
00:31:36 dana dulzo: thanks
00:32:04 Eileen Zymroz: Also sorry, late, West Springfield, Ma
00:32:06 Jeff Shih:

<https://museeyslparis.com/en/biography/lhommage-a-piet-mondrian>

00:32:11 jacob waxenberg: This is a great project for middle schoolers
00:32:20 Catherine Abbott: Mondrian can also be done with
Spreadsheets. I found a YouTube video showing how to do this on Google Slides.
00:32:32 Gloria BrownBrooks: Hollister, CA
00:32:34 Akanksha Bajaj: Can you share the YouTube video?
00:32:39 Laura Semian: Mondrian area/perimeter REALLY drives home when to
use units vs square units... they can SEE it... esp if it's done on graph paper
00:32:46 David Barnes: @Jeff - Thanks!
00:33:35 Catherine Abbott: Mondrian

Deconstructing Mondrian: The Story Behind an Iconic Design

<https://www.youtube.com/watch?v=1x8m-7N-Kjo>

Mondrian Puzzle - Numberphile

<https://www.youtube.com/watch?v=49KvZrioFB0>

Mondrian (Artist evolution to music.)

<https://www.youtube.com/watch?v=iSCmWnIoRpI>

Piet Mondrian: A Life in 10 Snippets

<https://www.youtube.com/watch?v=pTIDrkRvCJI>

Mondrian at Tate Liverpool and Turner Contemporary

https://www.youtube.com/watch?v=dhv3_nGfETw

Piet Mondrian - 'Abstract Painting as We Know It' | TateShots

<https://www.youtube.com/watch?v=xkq5jQhH0WE>

00:33:40 Jamie Rossi: Could totally do this with legos
00:33:49 Catherine Abbott: I love the photo.
00:34:12 Laura Semian: legos would be an interesting twist
00:34:14 Angela Wilson: I used different size and lengths of construction
paper and a full white sheet of paper in my math class for the "Golden Rule" lesson.
00:34:30 Janice Magauay: rubric?
00:34:43 Debbie Meaney: What was the timeframe?
00:34:45 Pamela DiBiase: Why did you select to use tiles verses canvas?
00:34:51 Kendra Heffelbower: Can you repeat the parameters?
00:35:00 Georgiana Simpson: Why was an oven used versus a kiln?
00:35:03 Lotalinda Castro-Anderson: How do u make sure that all families
had these supplies at home? For remote learning?
00:35:05 Laura Semian: thanks for sharing all of the resources
00:35:05 Kristina Sass: So, the glaze you used became permanent in the oven?
00:35:14 Pamela Goff: I love the fact that it can be differentiated for
the students.
00:35:21 Janice Magauay: Thanks
00:35:33 Macobia Harris: Great activity for area and perimeter
00:35:52 Delores Rushing: Nice project. What types of templates did

the students use to create the designs?

00:36:08 Catherine Livesay: What were the sizes of tape again?
00:36:12 Joeleen Stanard: Great activity to do with the art teacher!
00:36:24 Catherine Abbott: For distance learningtry the spreadsheet
version of the Mondrian project.
00:36:25 Natasha Gambarov: 1/16 and 1/8 Catherine
00:36:28 Ellen Williams: Love this
00:36:42 Natasha Gambarov: width
00:36:42 Robin Ward: See <http://inspirationlab.org/story/4844> to use
Mondrian to explore number sentences with Kindergarten.
00:36:51 Christina Williams: Did they calculate the perimeter of each
rectangle so that became their limit on the amount of tape they could use?
00:37:17 Chris Suurtamm: nice to bring the problem back to the students -
great idea!
00:37:22 Laura Semian: great to have the STUDENTS think about the details
of the project upfront...
00:37:44 Laura Semian: like the different denominators
00:37:47 Akanksha Bajaj: Here's a link I found:
<https://www.techlearning.com/tl-advisor-blog/make-mondrian-art-with-google-sheets>
00:38:23 Jacqueline Colbourne: Thank you for the link.
00:38:34 Laura Semian: again, love that students help come up with the
plans...
00:38:45 Laura Semian: talk about BUY IN!
00:38:48 Patricia Daugherty: Nice use of choice
00:38:48 Judy Lamoreux: These are great! Will the instructions for the
lessons be included at the end of this?
00:39:12 Pamela Goff: What was your vision for the math?
00:39:13 Arelys Arenas: we can add area of irregular polygons
00:39:15 Emily Kavanagh: Very nice samples
00:39:16 David Barnes: @Judy - Yes. Shared at the end.
00:39:31 Delores Rushing: Great! Gets students working together
00:39:31 Judy Lamoreux: Thanks!
00:39:39 Linda Baker: thank you for the awesome links!!!!
00:39:51 Arelys Arenas: find area based on color used can be a great idea
00:40:51 Laura Archer: I could see using this on graph paper
00:41:05 Arelys Arenas: Thanks for these amazing ideas
00:41:10 Gloria Flores: Graph paper would be great
00:41:10 Robin Ward: See <http://inspirationlab.org/story/8926> to use
Klee's Castle and Sun to explore shape, counting, graphing/data analysis. Here's
another Klee Castle and Sun activity I have done:
<http://inspirationlab.org/story/6807>
00:41:12 Brenda McNeese: calculate area, costs (use tiles and paint), from
there discountes,,
00:41:13 Laura Semian: love the problem-solving part
00:41:17 Cindy Bryant: Yes, you are muted.
00:41:35 Arelys Arenas: Prices based on materials needed
00:41:47 Georgiana Simpson: Will we also receive some of the resources
people are typing into the chat?
00:41:56 Imelda Valencia: Is this only done in class? This will be a
challenged since we have a lot of concepts to cover.

00:42:15 Cindy Bryant: The chat will be posted with the recording.
00:42:21 Chonda Long: The recording, chat, and resources will be posted tomorrow at www.nctm.org/100
00:42:31 Laura Semian: durability factor comes into play! ;)
00:43:35 Arelys Arenas: Art is not perfect as math is
00:43:44 Georgiana Simpson: I like "gulabi!"
00:44:03 Robin Ward: See <https://www.facebook.com/mathgoggles/posts/1257322474279795> to create a Mondrian with crayons/grid paper and explore area and perimeter.
00:44:08 Trena Wilkerson: Great Book To use with Kandinsky!
https://www.amazon.com/Noisy-Paint-Box-Kandinskys-Abstract/dp/0307978486/ref=sr_1_6?crid=1H08QNSGNAXOH&dchild=1&keywords=kandinsky+book&qid=1595373032&sprefix=kandinsky%2Caps%2C176&sr=8-6
00:44:11 Laura Semian: interesting... re: perfectionism from that angle
00:44:17 Alison Jo Frost: Math is an attempt to make order out of chaos –art offers a different point of view of the same attempt to create order out of chaos
00:44:29 ALEX QUYENVO: my Geometry students have to design something similar: design their dart board, using at least 4 different poligons, then find the perimeter and area of each, then find the possibility of the dart landing on each polygon, then they have to assign a point for each polygon, and explain why they choose the point they choose (smaller shape gets higher points, I expect in their work)
00:44:42 Catherine Abbott: Math is not perfect....that's why estimation and significant figures are used.
00:45:20 Arelys Arenas: Can be linked to the Social Emotional Aspect
00:45:29 Robin Ward: See <http://inspirationlab.org/story/8486> for an Kandinsky activity exploring circles, radius, diameter, measurement, etc.
00:45:42 Alison Jo Frost: Can we save the chat for resources?
00:45:46 ALEX QUYENVO: they have a week to do that, and it is a Test project students do at school, and can take home to work on it if they want to
00:45:49 Laura Semian: YES!!! "in terms of pi"
00:45:49 Jamie Rossi: This could be cool if you did this over 9 days to show emotion
00:45:55 Alison Jo Frost: I don't see my 3 dots to do so for me?
00:46:44 Emily Kavanagh: This looks fun
00:47:02 Janice Magauay: I like the idea of 9 days to see their emotions for straight 9 days
00:47:06 Catherine Abbott: I hope this was messy. It looks like fun
00:47:13 Jamie Rossi: I can see students learning to use a compass with this too
00:47:20 Julie Hutchinson: I had my 6th grade students do this with Kandinsky Circles and fractions
<http://eisforexplore.blogspot.com/2014/04/kandinsky-math.html>
00:47:25 Elizabeth Wallace: Can you talk about the 9 days of emotion?
00:47:34 dawnfurstenberg: How much information on the artists themselves and the art movements they come from do you incorporate?
00:47:42 Susan Papert: @Catherine. Right?!
00:47:56 Natasha Gambarov: @Alison, the chat will be posted at the nctm website tomorrow

00:48:05 Catherine Abbott: Estimation is not LESS math. It is IMPORTANT useful everyday math.

00:48:37 Laura Semian: ratio practice is great here

00:48:47 Tom Litwinowicz: funny how you say how precise your boys are for getting it correct, I teach HS and my female students are far more concerned with getting it right compared to the boys (they are at it too)

00:48:53 Claudia Cooper: So they draw first then do the math?

00:49:14 Catherine Doiron: Prep school

00:49:24 Robin Ward: Another work by Kandinsky that is fabulous is "Composition VIII." See this activity:
<https://www.facebook.com/robin.ward.3954/posts/10207542613835109>

00:49:35 Arelys Arenas: Great to see how to incorporate many standards at ONCE!

00:49:53 Catherine Abbott: @Tom....my girls are often more concerned with precision than my middle school boys. However, my accelerated math boys are often concerned with precision.

00:49:55 Alison Jo Frost: Those shorts re The Perfect Choice!

00:49:58 Erica McCord: Google draw

00:50:03 Jamie Rossi: cereal box

00:50:11 Laura Semian: using "in terms of pi" is SO important... along with pi is approx. 3... many students seem to think pi is a really BIG number...

00:50:46 Susan Papert: jamboard, facial tissue box, home delivery box

00:50:50 Janice Novakowski: I was just going to comment on the focus on "dead white guys" - thank you for addressing this. We all need to be mindful of representation.

00:50:59 Myra Absin: Good morning.

00:51:13 Sheila Kirton-Robbins: Kadinsky-Use different color paper and cut out different size circles. Maybe use bottle or can tops and glue them

00:51:17 Laura Semian: lol @ don't throw anything out

00:51:59 Laura Semian: love the collage of multiples

00:52:10 jacob waxenberg: Nice work

00:52:12 Nora Marasigan: This is so nice!

00:52:14 Erica McCord: I like that

00:52:27 Emily Kavanagh: Beautiful

00:52:27 Gil Geeran Bangeles: That was awesome.

00:52:28 Monique Greene: that's cool

00:52:29 Polly Mayer: Lovely- so creative! Great math, too!

00:52:30 Ana Guerrero: Interesting idea

00:52:33 Theresa Liddy: that seems very fun and creative!

00:52:38 Ellen Williams: Cool project

00:52:42 Joeleen Stanard: This is a fun activity and seems easy to get the materials.

00:52:46 Chris Suurtamm: great way to recycle

00:52:46 Alicia Kaplan: I like this assignment. Great for those that struggle with multiples

00:52:49 Gloria BrownBrooks: Thank You for listing all supplies

00:52:53 Katharine Zaragoza: great idea

00:52:55 Catherine Abbott: Many of my students' families do not get magazines any more.

00:52:56 Cindy Bryant: Love the use of different materials

00:52:58 Arelys Arenas: Amazing project to incorporate multiples
00:53:24 Michele Conyers: Might be interesting to limit students to objects from nature.
00:53:29 Catherine Tung: @Catherine Could they use junk mail advertisements?
00:53:32 Portia Felder: Students could use pics from the internet to create a digital collage
00:53:34 Theresa Liddy: junk mail would work too
00:53:55 Robin Ward: For those interested in integrating math + art, see this link for activities/ideas: <https://www.facebook.com/mathgoggles/>
00:54:02 Jamie Rossi: Use the recyclables you are already getting rid of
00:54:03 Elba Howington: great idea
00:54:06 Delores Rushing: Nice! Students are learning math and art. What a beautiful combination. The students learn that these subjects are not taught in isolation.
00:54:17 Laura Semian: choosing 15? will probably always now remember what a multiple is! ;)
00:54:24 Joann Minner: Love the idea of a digital collage for distance learning!
00:54:57 Mohamed T: Wonderful ideas
00:55:05 Theresa Liddy: leaves, grass,
00:55:19 Susan Danskin: Chalk on the sidewalk would work
00:55:34 Michele Conyers: Time to visit the Dollar Store!
00:55:35 Maureen Kishbaugh: I liked using nail polish.
00:55:35 Laura Archer: Could insert images and copy them onto a doc
00:55:43 Linda Pritchett: Hello!
00:55:50 MIKE GENUEL SALAZAR: Math is an art.
00:56:09 Janice Novakowski: The collage project in particular would be great to do digitally.
00:56:10 Laura Semian: love the use of creative materials... lipstick, etc
00:56:11 Tiffany Lace: In the trouble shooting slides there are quotes from students. Is there a specific reflection form you use that address the math and art components? If so, do you use a general form or one specific to each project? Are you willing to share an example one?
00:56:14 Catherine Abbott: YAY Flipgrid is great for student verbal explanations.
00:56:23 Judy Radigan: Zoom breakout rooms!
00:56:33 Lourdes Vargas: Bryan Collier also uses collage in his illustrations
00:56:40 Brenda McNeese: shapes can be created with moveable pieces in ppt or google slides
00:56:41 Dee Crowell: Can they upload a photo in Flipgrid?
00:56:41 Janice Novakowski: There are some great virtual manipulatives that could be used to create the Mondrian and Klee projects.
00:56:43 Cathy Cohn: If you are one to one ... adobe draw
00:56:45 Georgiana Simpson: We were able to send colored paper home during distance learning. Color paper collage can work for Kandinsky.
00:56:49 Jennifer Smith: non-permanent art (using objects that don't need to be modified but can be combined to create art - then take a photo of the creation)
00:57:01 Catherine Abbott: Invite students to find suitable materials and share their ideas with each other.
00:57:01 Greisy Winicki Landman: leaves & seeds - stamping; patterns;

transformations

00:57:02 Emily Kavanagh: The Dollar Store is my best friend!

00:57:08 Laura Semian: bless you for making a house call!

00:57:18 Jamie Rossi: Flipgrid is AMAZING!!

00:57:19 Janice Novakowski: There's a whole hashtag on twitter to follow re #sidewalkmath

00:57:19 Antoinette Nista: I have used clear plastic dishes and sharpies to create a stained glass look.

00:57:23 Jennifer Smith: They CAN upload a photo on Flipgrid

00:57:29 Janice Magauay: Yes they can show the image

00:57:31 Portia Felder: Students that own them, could also draw on ipads.

00:57:35 Theresa Liddy: dry pasta noodles!!

00:57:43 Jamie Rossi: pasta!!

00:57:47 Elizabeth Wallace: beans

00:57:53 Libby Kappler: For distance learning: My kindergartner was asked to build a structure out of pantry items (cans, boxes, etc...) could be used for volume and surface area.

00:57:55 Jamie Rossi: rice too

00:58:02 Judy Lamoreux: Beans

00:58:20 Janice Novakowski: Also on twitter if you search #mathwalk there are lots of examples of using sidewalk chalk to create math/art with

00:58:31 Elba Howington: The pantry has tons of geometry!

00:58:36 Jayson Sentinellar: Good day

00:58:39 Christina Fallstick: I'm teaching our summer enrichment program virtually and teaching circles tomorrow! Already thinking about creating a Kandinsky using google slides by creating a table and having them use the circle tool to create the designs. A template could easily be made and shared on google classroom as copies for each student.

00:58:46 Georgiana Simpson: My students don't have sidewalks, but I could create homemade chalkboards for them to create temporary artworks.

00:59:08 Jamie Rossi: expo markers on windows are great too

00:59:36 TINA LATTIMER: I have used old transparencies for the stain glass project

00:59:41 Antoinette Nista: Combined Chihuly and MC Escher-used clear plastic dishes and made tessellations and sharpies . Used a heat gun to create Chihuly like shapes.

00:59:41 Christy Rose: these are great ideas thx

00:59:48 Janice Magauay: Stained glass frame project we just used transparency paper on top of each artwork

00:59:50 Alison Jo Frost: Did someone mention melting the styrofoam plates to make holiday ornaments?

00:59:55 Christina Williams: tissue paper

01:00:06 David Barnes: The wisdom of the group is fabulous as always!

01:00:18 Judy Lamoreux: Shrinky dinks

01:00:19 Carolyn White: I have used Flipgrid as an App on Smart Phone to Show art work for Math. It is also great that you can comment as a teacher as you are distance learning Dr Robin Ward is a great Resource

01:00:33 Judy Radigan: Try: <http://www.sidewalkmath.com/>

01:00:39 Tiffany Lace: Can you share the survey that you give out to your students?

01:00:42 Megan Riley: Have you ever done the 100's chart design with their initials and they they have to figure out what percentage, fraction and decimal each letter is

01:00:53 Kara Matthews-Bland: I had my student create an Angry Birds models and create three possible equations for parabolas that could target the pigs in the models.

01:01:21 Galaxy J2 Core: Interesting hands on activities for kids.

01:01:27 Catherine Abbott: Symmetry of squares to make interesting shaped tessellation

01:01:39 Jamie Rossi: Revisit the objectives for the kids

01:02:02 Elizabeth Barlow: I love that you incorporated a survey instead of asking for a written reflection. You could measure their responses too.

01:02:18 Catherine Abbott: Use symmetry of squares to make tessellations...<https://www.youtube.com/watch?v=5FIOF8xsPas>

01:02:20 Polly Mayer: These are great- thank you!

01:03:06 Shannen Bunoski: These are awesome! Thank you!

01:03:08 Catherine Doiron: The Russian connection points out what you were saying about using artists from different groups.

01:03:29 Ann Wycoff Bagshaw: Thank you for some wonderful ideas that combine art and math and allow for differentiation

01:03:30 Catherine Abbott: Describing transformations with Tangrams.

01:03:38 David Barnes: Handouts for today's webinar:

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout1.pdf

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout2.pdf

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout3.pdf

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout4.pdf

<https://www.nga.gov/content/dam/ngaweb/Education/learning-resources/an-eye-for-art/ANEyeForArt-RomareBearden.pdf>

01:03:59 David Barnes: Handouts for today's webinar:

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout1.pdf

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout2.pdf

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout3.pdf

https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout4.pdf

<https://www.nga.gov/content/dam/ngaweb/Education/learning-resources/an-eye-for-art/ANEyeForArt-RomareBearden.pdf>

01:03:59 Robin Ward: To build on today's info...for easy-to-implement math-art activities for grades preK-2, see <https://robinanneward.wixsite.com/mathgoggles>

01:04:02 Shannen Bunoski: Absolutely review objectives for students!

01:04:03 Gloria BrownBrooks: Thank You

01:04:05 Catherine Abbott: Thank you Kristina.

01:04:06 Alicia Kaplan: Thank you, this was great.

01:04:08 Judith Montgomery: could you show the reference screen again?

01:04:09 Kristin Randall: thank you!

01:04:11 Aura Rodriguez: can you please go back to the resource page?

01:04:11 Winnica McLean: This was very nice, thank you

01:04:12 Gloria Flores: Awesome, Loved it!

01:04:12 Martisha Dunn: Thank you!

01:04:13 Pamela Liegl: Kristina, great presentation. Thanks

01:04:13 Linda Pritchett: Thank you!

01:04:13 Carmelita Nalzarro: Thank you very much

01:04:14 Shonel fraser: Thank you!

01:04:15 Elba Howington: Thank you!!

01:04:16 Maria Reid: This was awesome!

01:04:16 jenniferdougherty: Thank you!!

01:04:17 Laura Semian: thank you so much... this was great

01:04:17 Judy Lamoreux: I loved this!

01:04:18 Erica McCord: Thank you

01:04:19 Andrea Chew: Thank You!

01:04:21 Kay McHeffey: Thank you!

01:04:22 CATHY SMITH: I love art integrated lessons. I use to teach Math at a PVA school and I loved it.

01:04:22 Chonda Long: Handouts for today's webinar:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout1.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout2.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout3.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout4.pdf

<https://www.nga.gov/content/dam/ngaweb/Education/learning-resources/an-eye-for-art/ANEyeForArt-RomareBearden.pdf>

01:04:22 Joann Minner: Thank you!

01:04:22 Catherine Doiron: Thanks so much! Great presentation.

01:04:23 Lisa Cudle: Thank you

01:04:24 Payal Arora: Thank you!

01:04:24 Ann Adkins: Thank you!

01:04:24 Karoulin Aljoris: thank you

01:04:24 Alicia Crawford: Thank you this was inspiring!

01:04:26 Regina Williams: Thank you for the great ideas!

01:04:26 Catherine Abbott: I am looking forward to getting the notes for this project.

01:04:27 Cheryl Lowery: thanks so much great information
01:04:27 Julie Mainwaring: Thank you!!
01:04:28 Antoinette Nista: This was wonderful—very inspiring!
01:04:31 Catherine Bertrand: Thank you. These are great ideas
01:04:31 Carmelita Nalzaro: Thank also to Ms. Chonda
01:04:32 Rita Shamrock: Thank you
01:04:32 Lorie Huff: Thank you
01:04:33 Nadine Richards-Ramsey: Thank you!
01:04:33 Cris Armada: Thank you so much...
01:04:34 Antoinette Nista: Thank you!
01:04:34 Laura Archer: Do you have a program you recommend for the Klee?
01:04:36 Kathi Holland: Thank you
01:04:36 Amy Price: Thank you!
01:04:40 Angela Wilson: Could you repeat the artist that you used for polygons and aspect ratios?
01:04:40 Chonda Long: Handouts for today's webinar:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout1.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout2.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout3.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout4.pdf

<https://www.nga.gov/content/dam/ngaweb/Education/learning-resources/an-eye-for-art/ANEyeForArt-RomareBearden.pdf>

01:04:40 Daniel Irving: Thank you for this incredible presentation!
01:04:43 dana dulzo: Thank you so much for a cross curricular project to develop this year.
01:04:44 CATHY SMITH: thank you very much
01:04:46 Emily Kavanagh: Thanks so much for this fun presentation
01:04:50 dana dulzo: awesome presentation
01:04:51 Eunice Dimasangal: Thanks a lot! 😊❤️
01:04:52 Trena Wilkerson: Excellent session! So many great ideas for math and art and integrating. Many cultural aspects to consider as well.
01:04:53 Natasha Gambarov: Thank you very much for sharing the interdisciplinary connection between art and math. I truly enjoyed this presentation :)
01:04:56 Macobia Harris: Thank you. Great ideas to add to the classroom (virtually and in-class)
01:04:56 Jamie Rossi: These are amazing lessons!! I look forward to incorporating some of these ideas in my STEAM lessons!!
01:04:58 Elizabeth Wallace: There are great books about artists that you can connect literature with the math and art
01:05:00 Debbie Meaney: I'm excited about using this with my classes this year. Thanks.
01:05:00 Nancy Davis: Thank you!
01:05:07 Alana Roberts: Thank you!

01:05:16 Joeleen Stanard: We usually make tetrahedron kites at the end of they year and go out to fly them. Some great art flying in the sky.

01:05:18 Katharine Zaragoza: Thank you, this was great!

01:05:20 Alison Jo Frost: David can you send a copy of this chat with the resources?

01:05:21 Lourdes Vargas: Wonderful presentation...loved it!!! Thank you!

01:05:28 Chonda Long: The recording, handouts, and chat will be available tomorrow at www.nctm.org/100

01:05:33 Angela Wilson: Thanks so much for these wonderful ideas to conclude my quarterly lessons in math this year.

01:05:35 Kendra Heffelbower: Thanks!

01:05:37 Monica Balroop: Thank you. Very interesting. These are projects that I can use.

01:05:38 Alison Jo Frost: thank you Chonda

01:05:40 Trinidad Vásconez: Were the activities developed in the Art or math class? Did the Art teacher provide with feedback as well?

01:05:40 Rosalyn Bantay: ♡ Thanks

01:05:42 K Kishida: Question: Would you talk a bit about the sierpinski triangle project you did with your students?

01:05:44 Alison Jo Frost: Thank you Kristina

01:05:52 Lance Brauchla: This are the "different" kind of ideas I see as allowing great variation to keep lessons fun/exciting....thanks!

01:05:52 Jayson Sentinellar: Thanks

01:05:54 Delores Rushing: This is great Kristina! I'm quite sure you have peeked the curiosity of the boys to explore learning more about using art to learn mathematics.

01:05:57 Catherine Livesay: Great ideas. Thank you.

01:05:59 Pip Arnold: great ideas thank you

01:06:04 Taryn Brown: Can you please put the links for the handouts back up.

01:06:05 Mary France Imperial: Thank you so much

01:06:05 Josie Cazares-Adams: Great presentation, thanks so much. Can't wait to try these in school!

01:06:06 Laurel Dietz: I am wondering if the students all did presentations of their work... hitting some of these mathematics and art concepts in it.

01:06:13 Jacquelyn Wardlow: Great Presentations of Awesome Math & Art Activities! Thank You!

01:06:13 Maria Padiernos: Muchas Gracias, Thanks from Detroit, MI

01:06:18 Allison George: Yes, I do it in high school.

01:06:19 Maurice Levy: Thank you.

01:06:22 Andrea Graziano: Thank you so much! I truly enjoyed this webinar! Loved the ideas!

01:06:23 Maria Reid: yes, any ideas for lower grades?

01:06:25 Catherine Abbott: Build models with HS students

01:06:26 Sharon Baltzer: I love this! My school likes to combine art with ELA, math, etc.

01:06:26 Libby Kappler: Thank you! Great presentation! Wonderful resources!

01:06:32 Lauren Davenport: Thank you. I love how you used art to involve math concepts. I have wanted to do this my entire career, thank you again.

01:06:34 Laura Semian: HS would love this... if nothing else to reinforce what they are "supposed" to already know...

01:06:42 Mark Phipps:♪♪♪ Amazing Art ♪♪♪.....

01:07:05 Libby Kappler: With little ones, you can use graph paper and then they can count the perimeter and area...(Mondrian)

01:07:06 ALEX QUYENVO: thanks for the sites ! very helpful !

01:07:06 Kristie Chandler: Thank you for a great presentation!

01:07:09 Laurel Dietz: Also making a concept maps ... with the learning objectives so it is explicit for the students

01:07:10 Catherine Abbott: @Mark Phipps....how did you do the notes?

01:07:11 Denise Beavers: Thanks so much for the presentation.

01:07:11 Imelda Valencia: How did you give them feedback especially for the math component?

01:07:18 TINA LATTIMER: our 4th graders use size of circles to represent place value

01:07:29 Antoinette Nista: Could you please put up the references again?

01:07:32 Teresa Moore: Thank you. It may work well when we are on a hybrid schedule. I can start the lesson in the class and my sixth grade students can work on the projects at home so that they are not always in front of a Chromebook.

01:08:18 Sheila Kirton-Robbins: Looks like a quilt.

01:08:27 Tom Litwinowicz: This was a great presentation, best of this group that I have seen. I will definitely look up the artist & collaborate with our art teachers. I teach upper High School math

01:08:30 Catherine Abbott: Right...rractals

01:08:33 Sage Moore: You can use letter sized envelopes

01:08:45 Mark Phipps:
https://coolfont.org/text-decorator.html?utm_source=cf_cp&text=Amazing%20Art

01:08:48 Maria Padiernos: I love fractals, I use them in both Algebra 1 and Geometry, teenagers love them!

01:08:49 Trena Wilkerson: We did a quilt project with Pascal's Triangle.

01:08:50 Judy Lamoreux: Do you have the instructions for the triangles?

01:08:55 Judy Radigan: My students made samples of 4 to the first power through 4 to the third and I almost had a kite for 4 to the 4th.

01:09:14 Paul Fishwick:
https://en.wikipedia.org/wiki/Sierpi%C5%84ski_triangle

01:09:15 Alicia Crawford: I did Sierpinski triangles with my self contained 6th grade class. They loved it and all chose it for one of their portfolios projects. They worked with great precision

01:09:32 Elizabeth Barlow: You are delightful - clearly teaching for the whole child!

01:09:33 Robin Ward: Thank you for sharing!

01:09:34 KEISHA SMITH: @Sage to do what with envelopes

01:09:35 Janice Novakowski: Thank you!

01:09:36 Catherine Abbott: Again....You can do this with musical instruments too?

01:09:38 Laura Semian: thank you

01:09:43 Sheila Kirton-Robbins: Thank you

01:09:46 Laurel Dietz: yes... the resources in the chat would be helpful

too

01:09:50 Pamela Goff: We have use the Serpinski triangles as a family math night activity.

01:09:51 Sandhya Raman: wonderful session! thank you! love the connections!

01:09:52 Nora Marasigan: Thank you so much!

01:09:58 Nell Thurlow: Thank you for the great ideas!

01:09:58 Sharon Black: Thank you so much!

01:09:58 Hannah Tully: Thank you:)

01:09:59 Wenny Liao: Thank you so much!!

01:09:59 Pamela DiBiase: Thank you Kristina!!

01:10:00 Todd Smallcanyon: thank you

01:10:01 Tanya Landry: Thank you!

01:10:05 Imelda Valencia: Thank you so much

01:10:06 Ana Guerrero: Thank you for all the creative ideas

01:10:07 Christy Rose: Thank you

01:10:09 Carrie Brown: Thank you!!!

01:10:09 ROSALIE MACASPAC: thank you

01:10:09 Jet Yeung: Thank you for all the information.

01:10:10 Taryn Brown: Thank you!

01:10:12 Lesley Collins: Thank You!!!!

01:10:13 Maria Reid: Thank you Kristina!

01:10:13 Kristin Frerichs: Thank you so much.'

01:10:14 Dave Hankin: Thank you again from Globe, Arizona!

01:10:14 Jacqueline Colbourne: Is was awesome. I tried to open the various links as they came up in the chat.

01:10:16 Catherine Abbott: Thank you again for a TERRIFIC presentation. Great ideas!

01:10:18 jacob waxenberg: I am amazed

01:10:19 Liberty Beckermann: Thank you!

01:10:19 Brenda McNeese: so interesting. thank you,

01:10:20 Portia Felder: Thank you for the inspiration

01:10:22 Maria Reid: Yes

01:10:22 Jamie Rossi: I thank you!!

01:10:22 Brenda Silkman: Thank you!

01:10:24 tracey simmons: Thank you!

01:10:25 Cris Armada: a very great presentation indeed... congratulations

01:10:25 Melonie Smith: Great presentation

01:10:26 Sandy Silverman: loved this!! thank you!!

01:10:26 Christopher Eddy: Thank you

01:10:27 Josephine Romero: Thank you very much!

01:10:27 Julie Hutchinson: Thank you!

01:10:28 MIKE GENUEL SALAZAR: Thank you!

01:10:28 Anupama Anand: thank you

01:10:28 Jennifer Eaton: This has been one of my favorite webinars! Thank you!

01:10:29 Emerlina Binuya: Thank you! It was so amazing!

01:10:36 Angela Rebol: thank you for the inspiration!!

01:10:36 Sumedha Kumar: Thank you

01:10:37 Ariel Beggs: Thank you for the fantastic ideas!

01:10:38 Sun Lee: loved it. I would recommend Faith Ringgold for

teaching reflections and wall paper patterns

01:10:41 Jacqueline Colbourne: I am looking for any way that I can make math fun during these times.

01:10:45 Jennifer Heldenbrand: Thank you, Kristina, for bringing arts integration into Math!

01:10:47 danpfliger: Thank you so much for sharing your experiences and knowledge!

01:10:50 Konnie Guthrie: Thank you.

01:10:51 Rodney Cooper: Thank you!

01:10:55 Alicia Kaplan: Thank you again.

01:11:04 Wendy Janerico: Thank you!!!

01:11:05 Cindy Bryant: Great ideas!

01:11:05 Catherine Tung: Thank you!

01:11:10 Carolyn White: Thank you

01:11:12 Allison George: Thank you!

01:11:13 Angelita Beltran: Thank you

01:11:14 Susan Papert: than you!!!

01:11:18 Halle Kananack: thank you! love to learn more about inspiring students with art and math!

01:11:24 Melonie Smith: I tried to RENEW but it didn't deduct \$20 from the regular fee

01:11:24 Sage Moore:

https://users.math.yale.edu/public_html/People/frame/Fractals/Labs/SierpTetraLab/STLProcedure.html

01:11:30 Mary Beth Kilnoski: So inspirational and realistic. Thank you. I love that you included the actual work and comments for your students.

01:11:40 Delores Rushing: Younger students can learn about Fibonacci numbers too. Love it!. Great job Kristina. Thank you so much!

01:11:42 Patricia Eberhardt: Wonderful presentation! thank you

01:11:55 Sage Moore: sierpinski w envelopes

https://users.math.yale.edu/public_html/People/frame/Fractals/Labs/SierpTetraLab/STLProcedure.html

01:11:56 Lorie Bell: Appreciate it!

01:12:01 Gerald Bruno: Thank you

01:12:03 TINA LATTIMER:

<https://drive.google.com/file/d/1EYCSw87PQU92GAh1jmsJACW06GRTJ-8/view?usp=sharing>
some ideas from a presentation I have done

01:12:19 Arlene Bachinela: Thank you so much

01:12:40 Ann Swierzbin: thank you!

01:12:46 Erica McCord: Thank you

01:12:50 Kris Tuerk: As an art teacher from Pennsylvania, great concepts to bring to my math teachers.

01:12:55 Harold Miles: Thank you.

01:12:57 Shannen Bunoski: Amazing webinar! Thank you so much NCTM!!

01:13:01 Susan Weiss: Thank you so much for your wonderful ideas

01:13:02 Marian Johnson: Thank you, I'm super excited to implement this!

01:13:09 Amy Nordhoff: Thank you!

01:13:09 Moreno Tracy: Thank you

01:13:10 Margaret Matheson: Thank you so much!

01:13:15 Patricia Daugherty: Thank you

01:13:16 Sandra Wildfeuer: Thank you.
01:13:18 Carmelita Nalzaró: Awesome presentation
01:13:19 Imelda Valencia: Please keep safe everyone
01:13:19 Arelys Arenas: Thank you for your presentation
01:13:21 Georgina Coffin: Fantastic! Thank you! Fircrest, WA
01:13:23 CATHY SMITH: is there a survey or attendance sheet
01:13:23 Abigail Santiago: Thank you!!
01:13:27 Winnica McLean: Thank you again
01:13:28 kim bolf: Thank you!
01:13:29 Shashidhar Belbase: Thank you very much for the nice discussion.

01:13:34 Vanessa Stokes: Thank you!
01:13:42 Larisa Whitaker: I did not receive the certificate from July
20
01:13:44 Regina Williams: Thanks again!
01:13:50 Larisa Whitaker: Please send it to me
01:13:52 Jacqueline Colbourne: This was awesome and so informative. I am
truly going to use a lot of the resources that was posted!!
01:13:56 Joeleen Stanard: Thank you for this art/math webinar!
01:13:58 Chonda Long: Handouts for today's webinar:
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout1.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout2.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout3.pdf
https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/July21WebinarHandout4.pdf

<https://www.nga.gov/content/dam/ngaweb/Education/learning-resources/an-eye-for-art/ANEyeForArt-RomareBearden.pdf>

01:14:03 Susan Danskin: Thank you for the wonderful ideas
01:14:05 Robin Humberstad: Great presentation!
01:14:13 Carmelita Nalzaró: Bye
01:14:18 Georgiana Simpson: Thank you so much! This was great fun!