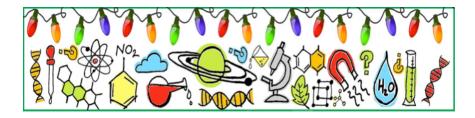




Holiday STREAM Fest 2020



A Flurry of Science And Family Fun!





GLCM STREAM Live Schedule 11:00 am

Wednesday December 23rd Holiday- licious

Tasty treats, edible art, yummy experiments, and lip-smacking delights for the whole family.

Monday December 28th Think Snow! A Flurry of Fun!

Enjoy some flakey fun this freezin' season!

Go crystal crazy, crush with slush, and turn your snowy world into a "Winter-colorland"

Tuesday December 29th Shoot For The Stars!

From stars in jars, to painting a galaxy, you can make your holidays sparkle with astronomy.

Wednesday December 30th Spread The Cheer!

Let's finish this year by spreading some cheer! Discover simple things your family can do with others (even our four legged friends) in mind.

Thursday December 31st Countdown to Noon!

It's back, it's back! The Great Lakes Children's Museum will be offering a virtual New Year's Eve celebration for the whole family! Join us via Zoom right from the safety of your own home. Pick up a Countdown Kit and you can decorate your very own ball! Don't miss it!

All above activities are available on The GLCM STREAM!

Participate virtually live, or watch recorded videos any time.



Think Snow! A Flurry Of Fun!

Make A Flake

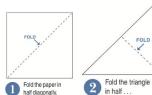
Supplies

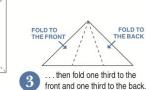
paper and scissors

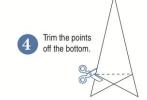
Directions

Make your paper into a square.











Experiment by making different shapes, sizes, and numbers of cuts. Be sure not to cut all the way across the triangle.















Frosty Ice Orbs



Supplies

Balloons, food coloring, water, cold temps or a freezer, Snow (hopefully)

Directions

- 1. Put 15-18 drops of food coloring in each balloon. Make multiple colors.
- 2. Fill the balloons to grapefruit size and tie off. Make a whole bunch.
- 3. Place balloons in a snowbank overnight and wait for them to freeze. If no snow is available, place balloons in bowls, in a freezer. When frozen remove the rubber from the balloons.
- 4. To make sculptures in your yard, make some slush by pouring a little water on some snow, then use the slush like glue to stick your ice balls together.









Crystal Crazy

Supplies

1/4 cup water cookie sheet thread or fishing line1/3 cup Epsom salt paper towelspipe cleaners small bowl or jar

Directions

1. Create a pipe cleaner snowflake and tie on the thread



- 2. Mix Epsom salt in hot (not boiling) water. Stir until dissolved.
- 3. Put your snowflake into the bowl and pour the Epsom salt mixture on top.
- 4. Put the bowl in the refrigerator for a few hours.
- 5. When it sets up, pull the thread to break the snowflake free.
- 6. Place a snowflake on a cookie sheet to dry. Pat with paper towels.







Blizzard Collage



Imagine a snowstorm with art!

Supplies

Lots of white paper, coffee filters, shredded paper, cotton balls Blue paper background Silver wrapping paper (optional) Glue and scissors

Directions

- 1. Cut or tear white paper into strips and chunks
- 2. Curl some paper strips around a pencil
- 3. Fold some paper strips to create odd shapes
- 4. Glue paper strips randomly on the backing paper to create a white and wild blizzard!





Crush With Slush

STEM Challenge



Can you Crush a plastic bottle with snow?

Supplies

- The Snow outside (or 6-8 cups of Ice in a pan, if there is no snow.)
- Empty 2 liter plastic bottle with a cap
- 1/2 cup very Hot Water
- Pitcher of Ice Water

Directions: Pour ½ cup of hot water in the bottle. Wait 2 min. Next, put the cap on and place the bottle in snow. (Or if there is no snow, put the bottle in a tray of ice.) Pour ice water over bottle, and watch what happens,

Why did the bottle collapse? Because of the change in temperature, the air pressure inside the bottle decreased to the point where it was less than the air pressure outside the bottle. Therefore, the air pressure pushing in was greater than the air pressure pushing out, causing the bottle to be crushed!



Winter-colorland!



Imagine snow in different colors! Take the family outside and have fun painting your world!

Squirt, squiggle, spray, drip or brush!

Supplies: food coloring (or liquid watercolor paint) water, spray bottles or bottles with squirt nozzles, turkey baster, paint brushes

Directions: Mix food coloring in water and fill your bottles. You can water down liquid watercolor paint if you want. (It will last longer.) If using a brush or turkey baster, put the paint mixture in something like a bucket. Go outside and enjoy making your yard a winter-colorland. Draw pictures and designs. Squirt to your heart's content!



Holiday-licious!



Smores In a Jar!

Make some to eat!

Make some to give away!

Supplies

Mason jars with lids, 1 box of Golden Grahams cereal, 1 package of mini marshmallows, one package of Holiday M&M's, and things to decorate your jars with.

Directions

Dump ingredients into a large bowl and mix with a spoon. Fill the mason jars with the mixture if you are giving some as gifts. Put some in small individual containers for kid size snacks.

Kids can customize the gift jars with decorations. Let them come up with their unique ideas using items from around the house. (Ex. ribbons, tape, markers, drawings on small tags)

This activity is great practice for young kids learning how to pour things into containers.







Holiday Healthy Smoothie Test

Test out different healthy smoothie ingredients! Find out what you like best.

Supplies: Choose any of the following

Green

1 large ripe banana 3/4 cup almond milk (or milk of choice)

1/2 cup fresh kale

1 Tbsp Chia Seeds, or Ground Flaxseed

1/2 avocado, pitted

1/2 cup fresh spinach

3 dates, pitted

6 ice cubes

Red

1 cup mixed frozen berries

3/4 cup almond milk (or milk of choice)

1 Tbsp cocoa powder

6 ice cubes

- 1 banana, fresh or frozen
- 1 Tbsp Chia Seeds, or Ground Flaxseed
- 3 Dates, pitted

Orange

1 banana

2 oranges

1/2 cup almond milk (or milk of choice)

1/2 cup full fat unsweetened or vanilla Greek yogurt (use dairy-free if needed

1 tsp. real vanilla extract (optional)

4-6 ice cubes

Directions: Have kids choose and try what like, put in a blender, mix and enjoy!





Cookie Frosting Art!

Swirl your way through the holiday! Kids create art to eat!

Supplies: Cutout sugar cookies: either home baked, or plain store bought frosting, or mix frosting yourself

Option #1 (mix yourself)

1lb box of confectioners' sugar, ¼ cup of light corn Syrup, ¼ cup water, ¼ t.vanilla extract

Option #2

Store bought can of frosting

Thin with milk

Three different colors of food coloring gel

Directions

Option # 1 Frosting: Combine sugar, light corn syrup, water, and almond extract in a large bowl and beat with an electric mixer until smooth, about 1 minute. To thin the glaze, add more water 1/2 tsp. at a time, until desired consistency. **Option #2 Frosting:** Add milk a little at a time to canned frosting until slightly runny.

Swirling the Cookies: Place a small amount of frosting in a small shallow dish. Squirt the gel food coloring in abstract lines across the surface. With the tip of a knife, swirl the food coloring lines slightly. Do not stir the gel completely into the frosting. Dip the face of the cookie into the frosting. It will pick up the swirl design. Repeat. Add more frosting and gel as necessary.





Gumdrop Challenge

What can you build with gumdrops and toothpicks?
Can you build it tall?
Can you make a ball?
This is a construction that you can eat!

Supplies

Gum drops (substitute apple or cheese chunks for less sugar) Toothpicks

A flat clean surface to work on

Directions

Push the toothpick into the gumdrops to build your structures. **Suggestions:**

- What shapes can you build with 3 gumdrops?
 Add gumdrops one at a time and see what other shapes are possible to build with each number.
- 2. Build a bridge.
- 3. Build a tower as tall as you can.
- 4. Can you build a holiday tree?





Veggie Train

Got veggies? Extend veggie eating fun to the whole family. Together, you could construct a train. Each child could invent one of the cars.

If a train isn't your thing, come up with animals, monsters, or dinosaurs.

The vegetable possibilities are endless!

Supplies

All kinds of vegetables.(see photo)

Toothpicks

Knives (Adult supervision) or pre-cut vegetables for younger children to work with.



Spread The Cheer!

Finish this year by spreading some cheer! Simple ways to practice kindness.



Paw Purr-fect!

Make and fill
a dog or cat treat jar for a
local shelter and your
own pet

Supplies

Empty oatmeal container or other jar, construction paper, markers, a variety of small plastic bottle caps, glue, flat ribbon for a collar, dog or cat treats

Directions

- 1. Make sure the container you use is clean and dry
- 2. Cover the container with construction paper
- 3. Glue on eyes and noses
- 4. Draw on whiskers and eyebrows
- 5. Cut ears from another piece of paper and glue on,
- 6. Glue on ribbon for collar
- 7. Glue a plastic cap on for a lid handle
- 8. Fill with treats and give away.



Kindness Matters



Countdown Jar

Make a difference with 25 acts of kindness!

Sit down with the kids and write down 25 things that they can do to be kind to someone else.

Supplies

25 small pieces of colorful paper (you could use 3x5 cards) A Jar, can, or box Pencil, markers or crayons

Directions

Before December 1st, talk with your kids and ask them to come up with ideas for being kind to someone else. Write each idea on a seperate piece of paper. Put the ideas in the jar. Then count the days of December down by pulling their ideas out of the jar and doing what each paper says. For a little extra fun, decorate the jar up festively. (For kid kindness suggestions, check out the resource page.)



Kindness Countdown 25 Random Acts of Kindness

- I. Make cards for neighbors
- 2. Help someone clean up
- 3. Pick out food to donate
- 4. Donate 2 shirts from your closet
- 5. Leave a note for the garbage collector
- 6. Take cookies to a fire station
- 7. Play with someone new at school
- 8. Give someone a compliment
- 9. Tell someone they're doing a good job
- 10. Pick up trash outside
- II. Make a gift for a friend
- 12. Call a friend to say Hi
- 13. Bring flowers to a teacher
- IH. Wrap up new toys to donate
- 15. Be last all day
- 16. Pick up pine cones in a neighbor's yard
- 17. Clean up a mess you didn't make
- 18. Send a card to Grandma
- 19. Take cookies to the neighbors
- 20. Tell someone you love them
- 21. Find (at least) one toy to donate
- 22. Make thank you notes for police officers
- 23. Donate two books
- 24. Leave a kindness rock outside
- 25. Offer someone a hug





Kindness Rocks!



Paint a Kindness Rock and place it somewhere in your neighborhood for others to see.

Supplies

Acrylic craft paint
A rock big enough to write or draw on
Paint brush

Directions

Paint something on a rock that will make people smile. You can write something positive like "Be Kind", "Smile", or "You rock!". Or. . . you could paint a star, a flower, or a smiley face. When the paint is dry, place it where people passing by will notice it, Maybe your message will pass along a smile and a warm wish on a cold day.



Salty Snow Sparkle Card



Experiment with salt and watercolors.

Use your artwork to make a card to send to someone.

Supplies

Watercolor paints, brush, salt, glue Heavy paper (watercolor paper works best) (drawing paper)

Directions

Paint over your whole paper with big swirls in two or three different colors. While it is still wet, sprinkle salt over your painting. Watch the salt work for a few minutes, and then shake it off. It will look amazing.

When your painting is dry. Fold it in half to make a card and write a cheery message inside. Send it to someone you know.



Keep the Kindness Flowing Deliver A Dinner



Put together a basket of items for someone's dinner and deliver it to them with a note that says your care.

Get the kids involved in choosing a meal and shopping

for the ingredients. We chose a meal of spaghetti since it didn't have any perishable ingredients, which meant that we could just leave it at a random door.

Other suggestions:

Feed the Birds

Donate books and toys to a women's shelter

Care packages

Donate to a food bank



Shoot for the Stars!



Stars In Jars Make the Holidays Sparkle with Astronomy

Supplies

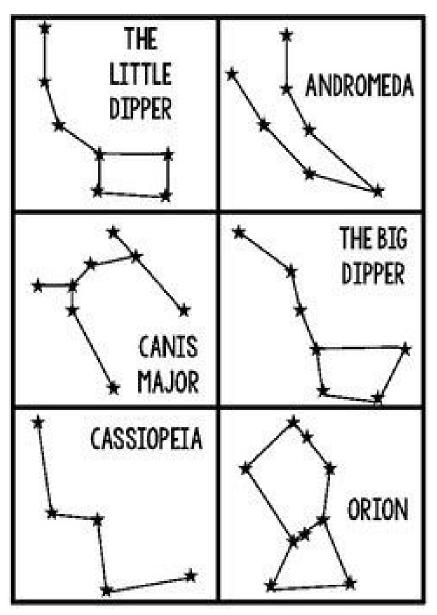
A clear jar, disposable aluminium cake pan (rectangle) Battery operated tea light candle, constellation patterns bbq skewer or sharpened pencil, towel

Directions

- 1. Parents cut out the bottom of the cake pan. Cut a long rectangle from the foil pan, which would fit into your jar. It should be wide enough to reach the cover of the jar, and long enough to fit around inside.
- 2. Flatten it down with a spoon.
- 3. Draw the constellations dots with a Sharpie on the rectangle, and poke the dots through to make the stars.
- 4. Make lots more smaller holes around the constellations.
- 5. Roll the foil so that it fits just right inside the jar.
- 6. When you put the light in, the stars will shine.

(See resource page for constellation patterns)







Galaxy Painting

Galaxies are big. Paint one together.



Supplies

Canvas (any size) If working together go bigger. Acrylic craft paints (black, blues, purples, white) Paint brushes for everyone.

Sponge or two Toothbrush

Directions

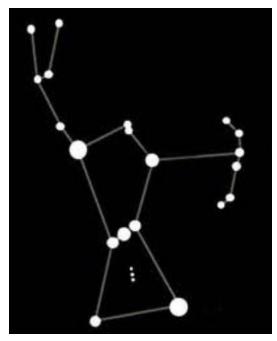
1. Dab spots of color on the canvas randomly



- 2. Everyone take a brush and begin spreading out the dabs of color, mixing and swirling the paint together until the whole canvas is covered. Add more dots of paint if necessary. Smear a few spots with a sponge,
- 3. Put white paint on a toothbrush and tap the brush for a sprinkle of stars. Take turns sprinkling.



What Does This Look Like To You?



Supplies:

Pictures of different constellations.

Paper and markers
Your imagination

Directions This constellation happens to be Orion the Hunter. But it doesn't have to be. Your challenge is to imagine something else.

- 1. Find pictures of constellations.
- 2. Draw their dots on a piece of paper.
- 3. Connect the dots differently. What is it now?

Make up a story about your re- magined constellation.



Family Star Watching Night



During the Holidays nighttime comes early.

That means this is a perfect time to check out the night sky.

Dress warm and go stargazing with your family. Find some shooting stars, or possibly planets.

Which stars do you think are brighter than the others?

Which constellations can you identify?

Look up times that the International Space Station will be visible in your area.

Watch for other satellites.

What does the moon look like tonight?



Zoom Countdown to Noon!

11:00am - 12:00pm
Purchase a <u>Countdown Kit</u> and participate live from your home.

Program:

11:00 - 11:30

Decorating your New Year ball Make party hats and noisemakers

11:30-11:45

Stomping Out 2020

11:45 - 11:55

Show off your New Year Ball

11:55 - 12:00

Countdown and Ball Drops 12:00pm

Happy 2021!

Purchasing a kit is optional for participation.



Countdown Kit Activities

Decorate Your Ball!



Supplies

Kit includes a (12 inch) beach ball to decorate.

Colored cellophane wrap

Directions

- 1. Cover the ball with cellophane wrap to make it shine.
- 2. Tape it in place
- 3. Find items and make decorations to add to the ball from around your house. (ribbons, old cards, shiny aluminum foil etc.)
- 4. Add a string so that you can tie the ball up somewhere for the drop later.(optional) You may just want to toss it in the air and watch it drop!





Spoon shakers Noise Makers

Supplies

Kit includes 4 spoons for 2 shakers.
2 plastic eggs
Popcorn kernels or beans

You provide: Masking tape, Markers

Directions

- 1. Fill the eggs with popcorn
- 2. Close the egg.
- 3. Tape the two spoons around opposite sides of the egg. (Like the spoons are holding the egg.)
- 4. Tape the handles of the spoons together.
- 5. Decorate with markers





Party Hats!

Look Festive!
Celebrate the new year in a hat that you decorate.

Supplies

Kit includes

1 paper party top hat 1 gold paper crown Crepe paper 2021 label

Ribbons

You provide

Markers

Glue or glue stick

Other assorted items to decorate with





Party Poppers!

Welcome the New Year with A Shower of Confetti!

Supplies:

Klt includes: Cardboard tube, balloon, wrapping paper cut to fit the tube, confetti

You Provide: Scissors, Masking tape or decorative duct tape, clear tape (Bird seed can substitute for confetti, or make your own confetti with a hole punch and scrap paper))

Directions:

Wrap the piece of scrapbook paper around each tube, covering the sides completely. Tape into place.

Cut the top off each balloon. Tie a knot on the blowing end of the balloons.

Stretch the cut end of each balloon over one end of each cardboard tube.

Use masking tape to cover the edge where the printed wrap meets the balloon.



Put confetti in the cannon . Hold the cannon firmly in one hand. With the other hand, pull the knotted end of the balloon back and release. Kabammm! Flying Confetti!





New Kazoo Year!

Buzz away
to the tune of
Auld Lang Syne
as we countdown
to the end of 2020.

Supplies:

Kit includes:

TP Tube. wax paper, rubberband, stickers

You provide:

Markers

Directions:

Notice that there is a hole punched on one end of the tube. On the opening at that same end, fold over a square cut piece of wax paper

Use the rubber band to hold it in place.

Decorate your kazoo with markers and stickers

To Use:

Make sure the paper is on tight over the end. It won't make a good sound unless the paper is on tight. On the open end, say "Do Do Do" into your tube to test out the sound.



Stomp Out the Old NO MORE 2020!



Stomp away all your cares with bubble wrap!

Supplies:

Kit includes: Bubble wrap

You provide:
Your feet
Permanent marker



Directions:

On the flat side of the bubble wrap, have each member of your family write something that they didn't like in 2020. As part of the Countdown program, we will Stomp away all our troubles!