

NATURAL LEARNING GOALS 2020 (cont. & add on's as of 1/9/20)

ELLA

- Amazon rainforest animals ✓
 - “100 species undiscovered in Amazon Rainforest”
 - Wild Kratz
 - Biome: National Geographic Kids 3D puzzle + book ✓
- Africa and China
 - Cultures (art, language, geography, dance, clothing, animals, beliefs)
 - Biome (create topography with miniatures to show what it really looks like)
 - Gather materials for: National Geo African Wildlife 3D Puzzle ✓
 - Africa ✓
 - China
 - Research, prepare and demonstrate a dance
- Birds
 - How birds fly ✓
 - Aviary for observation and hands on research ✓
 - Flight simulator
- Aeronautics
 - How things fly
- Hang gliding
 - Hang gliding course in Outer Banks
- Planets and the stars
 - Visit darkest place in U.S. (Nevada desert) to observe Milky Way
 - Observatory options
 - Planetarium at CSC: Beginners Guide to the Universe, Stars Over Pittsburgh ✓
 - Children’s Theater Magic Schoolbus The Solar System ✓
- Math
 - Ipad app, online class/coursework ✓
 - Life of Fred math series, Bedtime math, books on mathematicians ✓
 - Bedtime Math ✓
- Technology
 - Programming basics
 - How coding makes things happen
 - Marble game that applies coding concept ✓
 - Rasperry Pie computer ✓

- Go further in explanation of binary and language of coding; apply to coding
- Butterflies
 - Life cycle: from caterpillars to butterflies
 - Get caterpillars to observe and do hands on research as they evolve into chrysalis then butterfly
- Explore DogCraft ✓
 - By Stacy Plays, author of January Book Club Selection
- Learn How to Do Archery
 - Research experience options, classes
- Continue Cooking Classes
 - With focus on foods from around the world and/or different places in the U.S.
 - Research Rec Center classes, CCAC classes, kids cooking classes
 - ~~Summer = camp~~; Fall = 4 week classes
- Try the Violin
 - Check in with Bryce to see if Kathy's music offers trials or intro's to different instruments
- Start a Band
 - Check in with Bryce to see if Kathy's Music students might be interested
 - Check in with FB groups
 - Explore family band option or friend band option (i.e., Gemma, Ariya)
 - Guitar store: rock camp

NATE

- Computers & technology
 - How to use code/program on the built computer
 - Move monitor to 3rd floor learning area ✓
 - Can Adam connect his Ipad to the big monitor so group can play Minecraft together easier?
- Stars and space
 - How space and time work
 - Focus on Jurassic Period ✓
 - Natural History Museum ✓
 - Earth & Galaxy's history: started ✓
 - Planetarium ✓
 - Observatory options
 - Desert travel
 - Future travel: NASA?
- Go Kart
 - Research how it works
 - Research types of go karts
 - Off-roading versions
 - Participate in local go kart course
 -
 - Research options for ownership of go kart
- Quad
 - Online research of types/comparison of quads ✓
 - How to drive one
 - Research options for renting a quad for an off road course experience
 - Off road experience (minimum in dirt or backyard) for fun not competition
 - Mines and Meadow ATV/RV Resort—Trails, ATV Riding & Dirt Bike Riding experience
 - Research dirt bike safety attire (cost, options)
- Explore what it is like to participate in a sleepover ✓
 - Participate in zoo overnight sleepover experience with family
- Gardening
 - Research vegetables and best growth environments
 - Research set up
 - Create set up, buy plants/seeds, grow/manage garden
- Math ✓
 - Look for tactile tools to represent math concepts
 - Life of Fred book series ✓
 - Ipad app, online class/coursework ✓

- Butterflies
 - Life cycle: from caterpillars to butterflies
 - Get caterpillars to observe and do hands on research as they evolve into chrysalis then butterfly

FIONA

- Learn how to make shredded cheese
 - Online resources
 - Farm program where cheese is made?
- How to make cupcakes ✓
 - From mix vs. from scratch
 - With bakers tools (icing bags and special tops to make swirls)
 - Decorative items to “make them look delicious”
 - **Have taste testing for Ella and Nate with final products
- Wondering how technology works
 - Frozen themed Ipad Programming Piece for Christmas 2019
- Learning about how the human body works
 - Specifically the heart ✓
 - Online resources
 - Research library course re: the humane body
 - Human Body book
 - CSC BodyWorks exhibit ✓
- Reasons things smell so bad
 - Hands on experiments to see what smells bad and why
 - Essential oils kit to create and compare smells ✓
 - Smell section of Carnegie Science Center’s Bodyworks exhibit ✓
 - Mad Science?
- Plants
 - Reasons for herbivores being herbivores
 - Zoo
 - Botanical Gardens
 - Phipps Conservatory ✓
 - Natural History Museum ✓
- How brainstorming works
 - Group demonstrations (ongoing over year) ✓
- How seashells and sea glass forms
 - Online resources (videos, books, etc.)
 - Hands on experiments with shells
 - Outer Banks tie in?
- Reasons it’s so important to stay healthy
 - Group discussions throughout year
 - Carnegie Science Center ✓
 - Online resources
 - Flight Trampoline Park (signs & discussion with employee about eating/exercise/energy) ✓
- Learn how to make string cheese

- Online video/resource
- Learn how to make Pirate Booty
 - Online video/resource
- Increase drawing abilities
 - YouTube how to videos to learn
 - Night & Light Furies as drawing subject ✓
 - Ella led art class ✓
- Focus on Kahn Academy Kids ✓
 - Noticing & voicing feelings
 - Reading
 - Explore as much as possible, “I really like learning”
- Learn as much about Minecraft as possible ✓

GROUP GOALS (as of 2/6/20)

- Website
 - Categories: reading logs per student, field trip Fridays, objectives, images, calendar?, links to community projects
- ~~Year Book~~
 - Photography
 - Editing
 - Design
 - Printing of final product
 - **Ella wants to assist with all aspects of creation of
 - **Nate
 - **Fi would like to help with photography
- Ongoing Community Giving Back Project
 - Option 1: Nose 2 Tail Cat Rescue ✓
 - Update rescue with current pictures/descriptors of our cats
 - Ella contributed updated photography of cats ✓
 - Birthday \$ donations from Ella ✓
 - Holiday \$ donation from Nate
 - Contact ED via text and ask how we could be of most assistance ✓
 - Suggested assistance: rescue senior, monetary &/or supply donations, promote rescue
 - Option 2: The Grand Residence
 - Contact Grand Residence and ask what would be most helpful
 - Option 3: Research needs in our community ✓
 - Individuals who are homeless
 - Care packages (i.e., nonperishable snacks, sample size advil, bandaids, bottle of water, \$, notes of affirmation/caring
 - Hand out when observed need
 - Individuals who express need through online community
 - Giant Eagle gift card (\$150) sent to a mom in PGH
- Martial Arts/ARMOR or bully prevention class
 - Bridgeville ProMartial Arts:
 - Saturdays 10-10:40 Lil Rhinos/ARMOR 3-5
 - Saturdays 10:50-11:30 a.m. Basic Beginner 6+, 11:40-12 p.m. ARMOR
 - **Ella is interested
 - **Nate
 - **Fi is interested in trying 1 class (nervous to not be in same class as bigger kids).
 - Contacted owner re: private class options to start, no response ✓
 - Premier Martial Arts
 - Private introductory class into martial arts

- Book Club ✓
 - Meet ___ to read book as a group to read and discuss chosen book
- Classroom Pet
 - Russian Tortoise
- Monthly financial gifts to organizations **Consider for future
 - Research options
 - Decide on amounts, set up gifts, send gifts
- Self Care ✓
 - Ongoing attempts to implement on daily basis
 - Lists created by everyone for self
 - Lists of Calming Strategies on poster of Peace Table
 - Happy Corners/Boxes in bedrooms
 - Peace Table
 - Sand trays
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- Family Travel
 - Outer Banks: June 21-25
 - Nevada desert
 - Join Adam on work trip(s)
 - New York City: May
 - Travel goal locations:
 - Future:
 - Hawaii (Fi)
 - Australia
 - Spring 2020
 - Austin, Texas
 - Washington D.C.
 - Summer 2020
 - Washington, D.C.
 - State Park
 - Montana Dude Ranch experience
 - Oregon Beach
 - Other West Coast Beach destination
 - Lake Tahoe
 - Main or similar beach destination
 - Summer 2020 Day or Overnight Trips
 - Wolf rescue area
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 - Fall 2020
 - Florida return
 - Vero Beach
 - Med resort
 - Key West
 - Winter 2020