Phelps Library STEAM Camps

How many drops on a penny *** all time favorite

Melt the rainbow - skittles in milk

Rainbow reaction - food coloring in milk touched with a Qtip dipped in dish soap

Hidden rainbows - food coloring buried in baking soda and revealed when drops of vinegar are added

Floating colors - layering colored liquids of different densities with droppers

Building boats out of duct tape and Popsicle sticks that can carry a load (river rocks) challenge to see whose boat could float with the most weight

Soft pastels Halloween pictures

Watercolors - demonstrating how they flow better on a wet surface than on a dry surface

Alcohol ink canvases - color the top half of the canvas with sharpie and flowing alcohol over the ink to complete the bottom of the canvas

Painting with acrylics

Binary necklaces - using binary code and 2 colors of beads to spell out their names

Decoding Christmas tree coloring page - using binary alphabet to color a Christmas tree according to directions

MIT Scratch

Week(s) of code - using apps on the week of code website to do different coding activities

Scissor practice, cutting straight, curved and zig zag lanes

Bubbles, bubbles bubbles - using straws to blow bubbles on a flat surface and inserting bubbles inside of bubbles, stacking bubbles... *** second favorite

Winter bird project, free cutting and tearing construction paper to create a winter scene for a bird to rest

Whisper tube science and layout design

Winter bookmark coloring project **** 3rd favorite (we laminated them for them)

How to take a snowman to school project - - engineering a method to carry and keep a snowman at school, plus a writing project where they described their method

Lego play

Snap circuits

Learning the different types of microscopes and how each is used

One foot circle - students lay a 12" dia. circle of string in the grass and count the different things they find and draw them

Virtuali-Tee app - exploring the systems in the human body

Week long study of the rainforest and creating a mural based on Jan Brett's book The Umbrella

PIG - dice game demonstrating probability

Dice race - who can complete the race course in the fewest dice rolls

Building block challenge - tallest tower

Engineering challenge - working in teams who can build the tallest and most stable structure using blocks and craft sticks

Paper airplane challenge - constructing a paper airplane and using measuring tapes determine whose flew the farthest, and who's landed in the highest unexpected place.

Design a stable structure using spaghetti and mini marshmallows

Migratory bird challenge - discovering the challenges and hardships that affect the migratory birds every year and how it affects bird population

Coming up: food webs, frog life cycles, manipulating water beads with forceps, sorting and graphing, chewable juice.....