

HBN Summer STEM Program

Daily Activities & Descriptions



Tuesday, July 5 - Friday, August 12, 2022

4-H DISCOVER SCIENCE (4H): Youth will navigate their way through the different worlds of science. Through the course of the week, they will participate in age-appropriate experiments that focus on chemistry, sounds and vibrations, laws of motion, and astronomy. Youth will make balloon rockets, homemade instruments, elephant toothpaste and more! Leaving each day with fun trinkets and a love for science. **Sponsored by Cornell Cooperative Extension of Columbia and Greene Counties. Instructor: 4-H Program Manager**

ALL ABOUT INSECTS (I): Youth will explore the lives and world of bees, ants, flies, moths, butterflies, beetles, and grasshoppers and why they are important to us. Students will have the opportunity to collect and identify insects and learn about how they fit into the ecosystem. **Sponsored by Cornell Cooperative Extension of Columbia and Greene Counties. Instructor: 4-H Natural Resources Educator**

ANIMAL INVESTIGATIONS (AI): Students will illustrate books on various animals using PebbleGo and their creativeness to put on display for other students at program to read. Students can enjoy books on birds, insects, and mammals. Must attend all 4 days. **Instructor: Mrs. Below**

ARTS & CRAFTS (AC): Popsicle sticks, pom poms, Watercolors, Model Magic, wood crafts, jewelry making and more! **Instructor: HBN ASP Summer Program Staff**

BINDLESTIFF CIRKUS (BC): Bindlestiff's Summer Cirkus offer youth the chance to explore circus skills like juggling, prop manipulation, stilt walking, clowning and more with Cirkus After School's Amy Chen. Fifty-minute sessions weekly focus on movement, fitness, and learning circus skills. Adaptable and accessible to almost all needs - Cirkus Afterschool 's Approach centers on the individual and their social and emotional well-being in addition to skill attainment. **(GRADES 1-6)**

CODEY ROCKY ACTIVITIES/AIRBLOCK DRONES (CR): Codey Rocky is an educational programmable robot. Children will use software to code the robot, manipulating it to do a variety of things you can imagine. The AirBlock Drone is an easy-to-use programmable drone that's geared to inspire young pilots to dive headfirst into STEM. Children will participate in flying drones and driving. While they play, they'll learn block-based programming, the principles of aerodynamics, exercise logic and use their critical thinking skills. **Instructor: Mrs. Kim Del Principe**

HBN AROUND THE WORLD (AW): Students will explore different countries, their culture, food, song and dance. They will also learn common words and phrases used in everyday conversation. Must attend all 4 days. **Instructor: Mrs. Below**

FASNY MUSEUM OF FIREFIGHTING (FF): Students will learn who Artisans are and what objects they crafted. Students will learn how Artisans are linked to the history of firefighting through their handiworks. Each week students will explore a different Artisan and complete a themed craft to take home. Some of the Artisans that will be explored are: carpenters, leather craftsman, decorative artists, tinsmiths, and more. **Instructor: Kathy Slade**

LITTLE EINSTEINS EXPLORE (LE): Children will explore a variety of fun hands-on activities that will include using all five of their senses. You never know what you will learn, imagine and create in this club! **Instructor: Mrs. Keute**

mTiny ROBOT ACTIVITIES (MT): mTiny is an early education robot for children growing up in the digital age. Children will use a Tap pen Controller as a coding tool that exercises children’s logical thinking and problem-solving abilities. It brings computer programming into the children’s real life, using coding cards and various themed map blocks to guide the child in exploring, perceiving and creating through highly interactive, stimulating and fun games. **(GRADES 1 & 2) Instructor: Mrs. Kim Delprincipe**

MINUTE TO WIN IT! (MTW): Get up and move!!! Grab your sneakers and join your friends for lots of fun and exercise. Each class will consist of exciting “Minute to Win It” obstacle challenges, some seen on the popular family game show. So, if you’re up for the physical and mental challenge – join us! **Instructor: HBN ASP Summer Program Staff**

OPEN REC (OR): Various activities inside and out!! Basketball, soccer, badminton, dodgeball, jump rope, hopscotch and arts and crafts to name a few. **Instructed by HBN Summer Program Staff.**

SPORTS CAMPS : Must attend all 4 days of camp, Monday - Thursday. Limited to 25 participants in each camp. **(GRADES 3-6)**

Basketball Camp (BC): Students will participate in age-appropriate skills, drills, games, and competitions daily. Camp will be broken down into three one- hour sessions where skills will be taught, practiced, and then tested in competitions and games. Please send students dressed appropriately for basketball activities.

Cheer Camp (CC): Learn what cheerleading is all about! Learn fun cheers and cadences that are used at football and basketball games. Learn fun skills and what it’s like to be a part of the action at sporting events!

Lacrosse Camp (LC): This club will teach beginner skills and drills. Student will learn how to hold the stick, cradle the ball, pass and shoot. They will learn the rules of the game and get to play fun games and activities.

Rugby Camp (RC): This camp will introduce you to the basics of rugby; passing, running, rules, scoring, ball handling, and kicking. Students will be non-contact as they learn the basics of the game. They will also play ‘touch-rugby’ matches together, giving the experience of how rugby games “flow” with running, passing, offense and defensive play and tactics.

Volleyball Camp (VC): Students will learn the basic skills and rules to get them started. Learn to pass, set and serve while getting to play fun games and activities throughout the week.

SPORTS SCIENCE SUMMER STEM ACTIVITIES (SS): With near-perfect pitches, swings, kicks, strokes and sprints, an athlete’s skills come down to countless hours of practice and a whole lot of science. Each day, learners investigate the mechanics of a different movement, connecting STEM concepts, like force, motion and the influence of gravity, to the movement of their own bodies. What does friction have to do with soccer? Why would a football player need to know about unbalanced forces? How would an Olympian hold up against a kangaroo in the long jump? Answer these questions and so much more in Sports Science Camp! **Instructor: Ms. Michele Roberts**

TAKE A WALK! (TW): Let’s take a walk - Let’s get outside and enjoy nature! You will enjoy bird watching and recognizing birds by their sounds! You’ll paint rocks for the school’s garden, make a kite - then fly it and so much more! Have you ever painted with a tree’s branch? You will in this club! Come join us and take a walk! **Instructor: Ms. Michele Roberts**

TOO GOOD FOR DRUGS & VIOLENCE AFTER-SCHOOL ACTIVITIES (TG): This club is an extension of the Too Good evidence-based prevention education programs for the after-school setting. Through a variety of positive, age-appropriate activities including games, stories, and songs, the program reinforces basic prevention concepts including decision making, goal setting, and conflict resolution among others. The activities are divided by age groups to sustain the children’s interest and correspond to their development level. Please note: This is a full week club. Students signing up will have the club Monday-Friday. **Sponsored by Catholic Charities. Instructor: Mrs. Mary Minahan**

WORD GAMES (W): Pictionary, 25 words or Less, and Charades are just a few of the games you’ll enjoy in this club! **Instructor: Ms. Stella Roberts**