THE SUMMER 2020 KGSC STEM GUIDE IS YOUR ONE STOP FOR KENTUCKY-BASED VIRTUAL AND IN PERSON STEM CAMPS, CLUBS, AND WORKSHOPS FOR K-12 STUDENTS. KGSC WILL BE UPDATING THE GUIDE AS MORE INFORMATION AND OPPORTUNITIES BECOME AVAILABLE. ADDITIONAL STEM RESOURCES IDEAL FOR HOME LEARNING ARE AVAILABLE ON OUR WEBSITE

http://kgsc.org
At Home with Jefferson Memorial Forest
https://louisvilleky.gov/government/jefferson-memorial-forest/virtual-summer-camps
(June – July, Ages 7 – 10)
A fully engaged experience with staff and camper interaction with little supervision from parents. A limited number of self-led camp boxes are available for purchase.

Wilderness Survival Camp (July 27 – 31)
Throughout the week, your child will also partake in interactive games and live animal sessions with other campers to capture that summer camp experience of community. At the end of the session, a self-led outdoor activity is included to encourage them to explore nature and share their experience the following day.

Locust Grove Camp (July 6 – 10 & 20 – 24)
Go on a time traveling adventure from your house with Locust Grove and Jefferson Memorial Forest. Meet important people from Locust Grove’s history and experience the past by building new items from old ideas.

Bellarmine Summer Camps
https://www.bellarmine.edu/ce/youth-camps/
(June - July, Grades 2-12)
Bellarmine Summer Camps have gone virtual and offer a wide variety of options. Campers will explore principals of STEAM topics and potential education and career paths with professors and other professionals using Microsoft Teams

Build It! Handheld Game Console (July 6 – 10, Ages 8-12 & July 13 – 17, Ages 12-15)
In this camp you’ll code games that are platformers, action/adventure, racing, artillery, role playing and, well, just about anything else you can dream up. Bring your imagination because no hardware or programming experience is needed.

Out of this World – with AR & VR! (July 6 – 10, Ages 10-12 & July 13 – 17, Ages 13-15)
Create, populate, and animate virtual worlds and bring them to life using CoBlocks (a “snap together” programming language). You’ll interact and enter your creations with your own augmented reality (AR) cube and virtual reality (VR) viewer!

Camp at Home with KMAC
https://www.kmacmuseum.org/camps
(Self-led, Ages 5 – 11)
KMAC’s Camp at Home Boxes contain supplies and instructions for five days of hands-on maker projects that don’t require any screen time. Campers will be able to get their hands dirty and practice skills and techniques with fun materials, tools and guides. Pre-recorded videos will be available to help your camper will be able to complete all the activities.

Camp Invention
https://www.invent.org/camp-invention-connect
(June - August, Grades K – 6)
The Camp Invention Connect program delivers the 2020 Camp Invention curriculum, Elevate, through a set of four at-home activity kits that are packed full of materials and delivered straight to your door. The program is designed to provide hours of hands-on fun that encourages children to go outdoors and stretch their imaginations. All activities can be screen-free and child-led, keeping the need for parental involvement to a minimum. Children can also join optional virtual collaboration sessions with a certified educator and other young inventors. These brief sessions include fun icebreakers and problem-solving challenges, keeping even our most shy participants excited as they make new friends.

Center for Energy Education Virtual STEM Camp
https://center4ee.org/summercamp/
(Marion, Barren, Clark, Boyle Counties, July 7-10, Grades K-8)
Free Summer Camp designed by school teachers to supplement learning and instruction missed by students due to COVID-19. Camp will meet daily on Google Meets at various times between 9:00 am and 3:00 pm. The campers will be provided supplies and emailed instructions and invited to interact with their camp counselor and other students in a closed Facebook group.

Club SciKidz 2020 Summer Camp in a Box
(June – August, Grades Pre-K-8)
Club Scikidz’ monthly lab kit is a comprehensive collection of STEM-based hands-on activities, experiments, and projects that will help young scientists and engineers explore the wonders of the world around them.

Explorium of Lexington Summer Camps
explorium.com/events/camps
(June - August, Grades K-5)
All camper will be provided with daily exercise videos to explain the activities and tell the campers cool stuff about the subject. Each day will have a mix of STEM activities, crafts, games, and puzzles, with group share Zoom calls on Friday. All disposable materials will be provided and can be picked up at the Explorium on the Thursday before the camp.
**Extreme Engineering** (June 22 – 26)
Build bridges, construct the perfect paper airplane, and even make a catapult!

**Minute to Win It** (June 29 – July 3)
Enjoy a ton of fun quick challenges and tricky outdoor games.

**Flintstones vs Jetsons** (July 6 – 10)
Travel through time her at the Explorium from prehistoric creatures to futuristic robotics!

**Walk on the Wild Side** (July 13 – 17)
Bugs, microscope explorations, and other dino-rific activities make for a roaring good week!

**Passport to Fun** (July 20 – 24)
Travel the world using art and science! Make paper airplanes, build famous landmarks, play games from other countries, and make origami.

**Imagine That** (July 27 – 31)
Get inventive and create like Einstein, Edison and Bell!

**Explore More** (August 3 – 7)
Fun backyard activities to get the wiggles out before school starts.

**Girls of STEEL: Think Lab on Facebook Live**
warrenpl.org/events
**Bowling Green**, Second Mondays June – August, Ages 8 – 13

Join us on Facebook for this progressive STEAM lab that empowers girls to explore Science, Technology, Engineering, Art, Math and more! For more information email jordanf@warrenpl.org or call 270-782-0252.

**iD Tech Virtual Tech Camps**
https://www.idtech.com/virtual
June-August, ages 7-18

Virtual Tech Camps are the perfect way to sharpen your STEM skills and bond with new friends, all online from the comfort of home. Choose from multiple tech camps that focus on cyber security, design, and coding. A balanced schedule including 2 hours of live instruction and peer collaboration, games and challenges, plus 2 hours of self-paced project development per day.

**Newton’s Attic Virtual Camps**
http://newtonsattic.org/
**Lexington**, June 1- TBD, Grades 7+

Newton’s Attic will offer both virtual and in-person camps for summer 2020. The virtual session of the Retro Arcade class that will take place from 1-4PM each day the week of 6/29 to 7/2.

**NKU Virtual Summer Camps**
https://inside.nku.edu/artsci/centers/cinsam/p12students/summercamps/summercamps.html
(May - July, Grade 3 – 8)

Engage in a variety of topics like engineering, forensics, cooking and more! Using Zoom, students will engage in live, online guided lessons and activities with teachers. Parents/guardians will need to provide the materials for their camp of choice in order for the student(s) to participate. A materials lists will be provided and will only include low cost, readily available, commonplace items.

**Snapology Online Virtual Camps**
https://embed.snapology.com/licensee/48/events/77005
June 8 – August 7, Ages 4 – 14

Programs are designed so that the only use of the screen or device is to simply instruct the students. The core of Snapology programs is always focused on building, creating, designing and problem solving. Children’s imaginations will soar as they build, learn and play with their instructor and fellow campmates!

**STEM You Can! Virtual Workshops**
https://www.science-interactive.org/virtual-programs
June 14, Grades 4-6

In a free 1-hour workshop, Introduction to Coding, campers will learn to think creatively, reason systemically, and work collaboratively – essential skills for life in the 21st century.

**STEMThink Summer Camps**
https://stemthink.weebly.com
(Weeks of July 6 & 13, Grade 1 – 5)

STEMThink is an entirely youth run nonprofit dedicated to providing equitable STEM education to children everywhere by offering free STEM workshops, summer camps, competitions, and an interactive video lecture series. The STEMThink curriculum integrates mental health techniques into STEM activities. Free, one-week summer camps teach middle school girls website and app development skills and self-care skills to cope with stress and anxiety. Because of COVID-19 concerns, STEMThink camps will be held over Zoom between 1-5 pm EST. STEMThink was co-founded by KGSC Teen Board Members Gloria Huang and Anne Liang!
**Virtual Summer Camp with the Ky Historical Society**
https://history.ky.gov/camps/
(June - July, Ages 5 - 12)

Virtual summer camps will come with a “camp kit” full of crafts and activities based on a weekly theme, along with access to a wide variety of related digital resources and supplementary materials. Museum educators will meet with campers daily from 10:00 a.m. to 11:00 a.m. via Google Classroom to lead activity instruction and virtually tour the museums. Kits can be picked up at the History Center for FREE or shipped out for an additional fee.

**Innovate History: Tinker Lab** (July 13 – 17)
Dive into the world of Kentucky innovators. After exploring the world of Kentucky inventions through a virtual visit into our Southern Exposition exhibit, become an innovator yourself!

**WAVE’s Virtual Summer Adventures**
https://wavefoundation.org/education/campwave/summer-camp/
(June-July, Grades K-8)

Students will have two live, interactive sessions each day from 10-11 a.m. and 12-1 p.m. on the Zoom platform with a break for lunch in between. Outside of these live sessions, additional independent activities will be available on the Seesaw platform for more exploration! Provided with an ‘Adventure Pack’ of needed materials, Virtual Adventurers will do hands-on science experiments, participate in animal encounters, meet scientists, make crafts, and play games while learning about the amazing aquatic world.

**Shark Week** (June 22 – 26)
From the texture of their skin to giant prehistoric shark teeth, find out about what makes sharks ‘jaw-some’. Watch sharks feed and talk to an expert to learn why sharks are an important part of our oceans around the world.

**Career Week** (June 29 – July 3)
Experience the many sides of working in an aquarium, from prepping food and feeding animals to tracking animal behavior for research projects. Talk to scientists from all over the world, including our own backyard and do some of our own experiments and research to see just how rewarding and exciting a career in biology can be.

**Stream to Seas** (July 6 – 10)
Take a journey from your backyard to the seas, following a water drop along the way. Learn about the unique habitats and organisms we’ll encounter from the prehistoric paddlefish, to the amazing alligator, to the jiggling jellyfish. We’ll do activities in our own back yards and find out how we can help save the whales from right here at home!

**Discoveries of the Deep** (July 13 – 17)
Participants will learn all about the inhabitants of the deep ocean and how we are able to explore these areas of the ocean that seem so unbelievable to us from the surface!

**Aquatic Adventures** (July 20 – 24)
Dive in and discover the incredible ‘super powers’ that exist in nature! Meet our animal superheroes and learn which animal superheroes might be in your own back yard.

**WKU Center for Gifted Studies Online Camps**
https://www.wku.edu/gifted/ (Weeks of July 6 & 13, Grade 1 – 5)

The Center for Gifted Studies’ Camp Innovate Online and Camp Explore Online are one-week day camps designed for students with advanced ability and high interest who were in grades one through five during the previous school year. These experiences feature minds-on and hands-on instruction to engage children in learning at advanced levels. Students enjoy enriching learning experiences from 10:15 - 12:00 with a 30-minute lunch break and an afternoon session from 12:30 - 1:30 (Central Time).
Higher Orbits Go for Launch with LASC
https://higherorbits.org/go-for-launch/
(Lexington, July 30 - 31, Grades 9+)

During this challenging time when many students may be missing classes, the Go For Launch! program can provide (once safe to do so) much needed STEM, teamwork, and communication engagement. Should there be need to change the dates of a program due to this constantly evolving situation, the event will be rescheduled not cancel. Higher Orbits and Living Arts and Science Center Lexington are committed to supporting stellar students.

Club SciKidz
https://www.clubscikidz.com/find-a-camp/kentucky-science-day-camps/
(Lexington, June-July, Grades PreK - 8)

Enjoy 4 weeks of themed Club SciKidz Summer Science Camps in Kentucky for a unique science and technology summer camp experience. Register for topics that include: Climate Change, Veterinary Medicine, Robotics, Coding, Stop Motion Animation, Video Game Creation, Quad Copters, Harry Potter, Chemistry, Oceanography, Paleontology, Virtual Reality, Robotic Car, and Kerbal Space Rocketry and many others.

Newton's Attic Summer Programs
http://newtonsattic.org/
(Lexington, July 15 – August 7, Grades 1 -12)

Newton's Attic will offer both virtual and in-person camps for summer 2020. With a focus on engineering education, Newton’s Attic summer camps cover a variety of topics, including chemistry, programming, 3D printing, lasers, and more.

Summer at Sayre School
https://summeratsayre.campbrainregistration.com
(Lexington, July 6 - 31, Ages 6-12)

For Summer of 2020, campers can look forward to experiencing the following themes:

Mission Impossible (July 6 – 10)
Acquire the necessary teamwork and critical thinking skills to become certified Summer@Sayre spies. Using these skills, campers will work together to complete a top-secret camp mission!

Go Green! (July 20 – 24)
Summer@Sayre is Going Green! We want to help our campers learn to love and respect nature by teaching them how we can positively impact the world around us. At the end of the week campers will learn some skills and tricks to live greener so we can help keep the earth cleaner!

Kentucky Proud (July 26 – 31)
This week Summer@Sayre is Kentucky Proud! Campers will be learning all about what makes our state so unique and special. By the end of the week campers will see why we should all love Our Old Kentucky Home!

Week of Code Summer Camp
https://www.awesomeincu.com/weekofcode/
(Lexington, July, Ages 9 – 16)

At Week of Code, you learn by doing - it’s hands-on, at your pace, and balanced with fun, off-computer activities. You’ll design and develop your very own website, mobile app, and video game in one week. Work with industry-standard hardware and software, complete a final project of your choice, and build your portfolio.
Club SciKidz
https://www.clubscikidz.com/find-a-camp/kentucky-science-day-camps/ (Louisville, Pewee Valley, St Mathews, June-July, Grades PreK - 8)
Enjoy 4 weeks of themed Club SciKidz Summer Science Camps in Kentucky for a unique science and technology summer camp experience. Register for topics that include: Climate Change, Veterinary Medicine, Robotics, Coding, Stop Motion Animation, Harry Potter, Chemistry, Oceanography, Paleontology, Virtual Reality, Rocketry and many others.

Higher Orbits Go for Launch with KSC
https://higherorbits.org/go-for-launch/ (Louisville, November 1 – 2, Grades 9-12)
The Go For Launch! program provides (once safe to do so) much needed STEM, teamwork, and communication engagement. Higher Orbits and Kentucky Science Center are committed to supporting all these stellar students.

KCD Summer Stretch
https://www.kcd.org/Page/Programs/Summer-Stretch (Louisville, July – August, Grades JrK – 6)
Campers can choose between academic and enrichment opportunities, sports, and the arts in a caring and nurturing environment that promotes healthy minds and bodies.

Louisville Zoo Summer Camps
https://louisvillezoo.org/education/public/summercamps/ (Louisville, Pending July – August, Grades PreK – 6)
Get ready for another exciting summer filled with all new camp options, one-of-a-kind experiences and hands-on adventures! Enjoy a wide range of exciting camp topics for every grade level, like Camp Discovery, Zoo Mazing Race, Backstage Pass and Vet Camp.

Mercy Academy Summer Camps
https://www.mercyacademy.com/page.cfm?p=530 (Pending July, Grades 4-8)
Mercy Academy, the first girls-only STEM school in Ky., offers a variety of camps to elementary and middle school students. June camps are cancelled; July camps pending.

School’s Out Science Camps
https://kysciencecenter.org/summer-camp/ (Louisville, June 15 – August 3, Grades PreK-5)
Campers will play, tinker, and investigate the world around them with plenty of time to explore their favorite science center. In compliance with state and local guidelines, wellness screenings, social distancing, and disinfection and sanitation protocols will be instituted.

Snapology Summer Camps
https://embed.snapology.com/licensee/48/events/list (Louisville, Weekly July – August, Ages 5 – 14)
The core of Snapology programs is focused on building, creating, designing and problem solving; imaginations will soar as campers build, learn and play with campmates!

Intro to Robots (July 6 – 10, Ages 5 – 7)
Children will explore the world of robotics as they build and code moving, LEGO® based models. They will also learn to think critically about their surroundings and realize all the simple machines they use every day.

Adventures with Star Wars® (July 13 – 17, Ages 5 – 10)
Children will have a great time in this week filled with Star Wars® themed activities using LEGO® bricks and other interactive learning tools. We will explore concepts such as engineering strong spacecraft and structures while building scenes from the movies, favorite ships and lightsabers.

Snapology Scientists (July 27 – 31, Ages 5 – 10)
Children will cultivate their love of science and nature through hands-on creation and experimentation. Engage in concepts from astronomy, earth science, biology, chemistry and physics using LEGO® bricks.

Zaniac Summer Camps
https://zaniaclearning.com/hurstbourne/programs/summer-camps/ (Louisville, July 13 - 17, Grades K – 8)
Indoor/Outdoor camps focusing on STEAM-related activities. For the indoor portion in the morning, we will be doing Game Design: Code, Play & Learn (Create a new game every camp and program classic arcade games (like Pac-man), Robotics, and more. The outdoor portion in the afternoon will be activities such as science experiments, exploring chemistry and physics.
**Lost River Camps & Workshops**
https://www.lostrivercave.org/events/  
(Bowling Green, August - October, ages 6-13)  
Learn about intricate ecosystems and crawling through cave passages to explore Kentucky’s unique Karst environment. Save the Date for Lost River Cave’s Fall Break Nature Discovery Camp (Oct. 5 – 9) registration closes 10/2/20.

**Girls in Nature** (September 5 & December 12, Girls Ages 8 – 13)  
The Girls in Nature Series is designed to inspire girls’ interest in nature and develop their outdoor skills in a fun, engaging environment. The GINS program focuses on cooperation, self-confidence, and leadership skills. Each class is a journey for the girls to challenge themselves with wayfinding, stamina, and environmental and personal responsibility. Sign-up for the whole series or for individual programs.

**Junior Naturalist Program®** (August 15, September 12, October 24, Ages 6 – 12)  
Measure your way through the woods to find out the dominant trees; learn about insects; and learn more about nocturnal owls.

**Blossom Scholastic 2020 STEM Camps**
http://blossomscholastic.org/cincinnati-camps/  
(Cincinnati, June-August, Girls Ages 8 – 12)  
Held from 8am-4pm Monday through Friday on the University of Cincinnati campus in college classrooms, students are guided by an adult instructor through daily activities exploring science and technology.

**Challenger Learning Center of KY Summer Camps**
http://www.clcky.com/summer.html  
(Hazard, Pending)  
These enrichment programs or “camps” teach science, technology, engineering, and mathematics in a totally hands-on manner where students are out of the classroom and on their feet having fun and learning. Topics range from basic engineering using Legos, space science, environmental issues, spy technology, rocket technology, and doing fun science experiments.

**Challenger Learning Center Fall 2020 Club Challenger**
http://clcpaducah.org/  
(Paducah, Registration opens August 1, Grades 1 – 5)  
Explore the amazing wonders of science during an after-school program, Club Challenger. Students will join staff at the Challenger Learning Center once a month to participate in exciting, hands-on activities related to space and science.