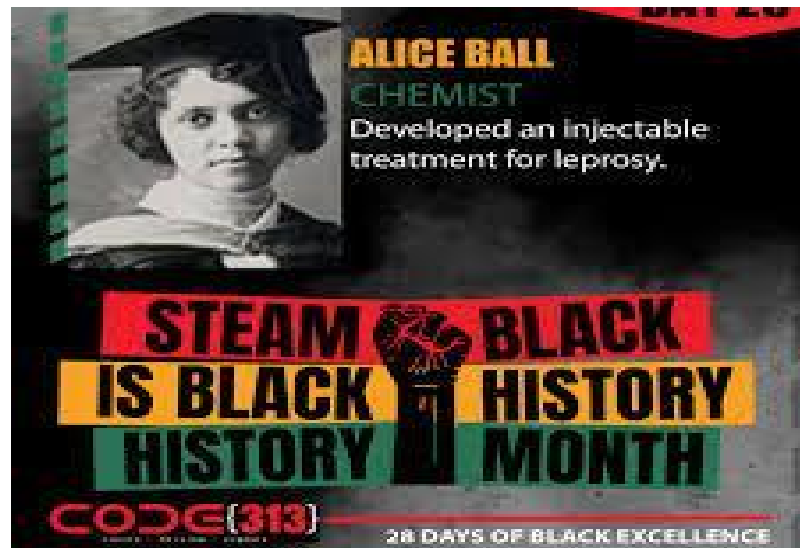




HOPE COMMUNITY PUBLIC CHARTER SCHOOL
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FEBRUARY 2025 NEWSLETTER

Innovation Through Science Technology
Engineering Arts & Math!!!

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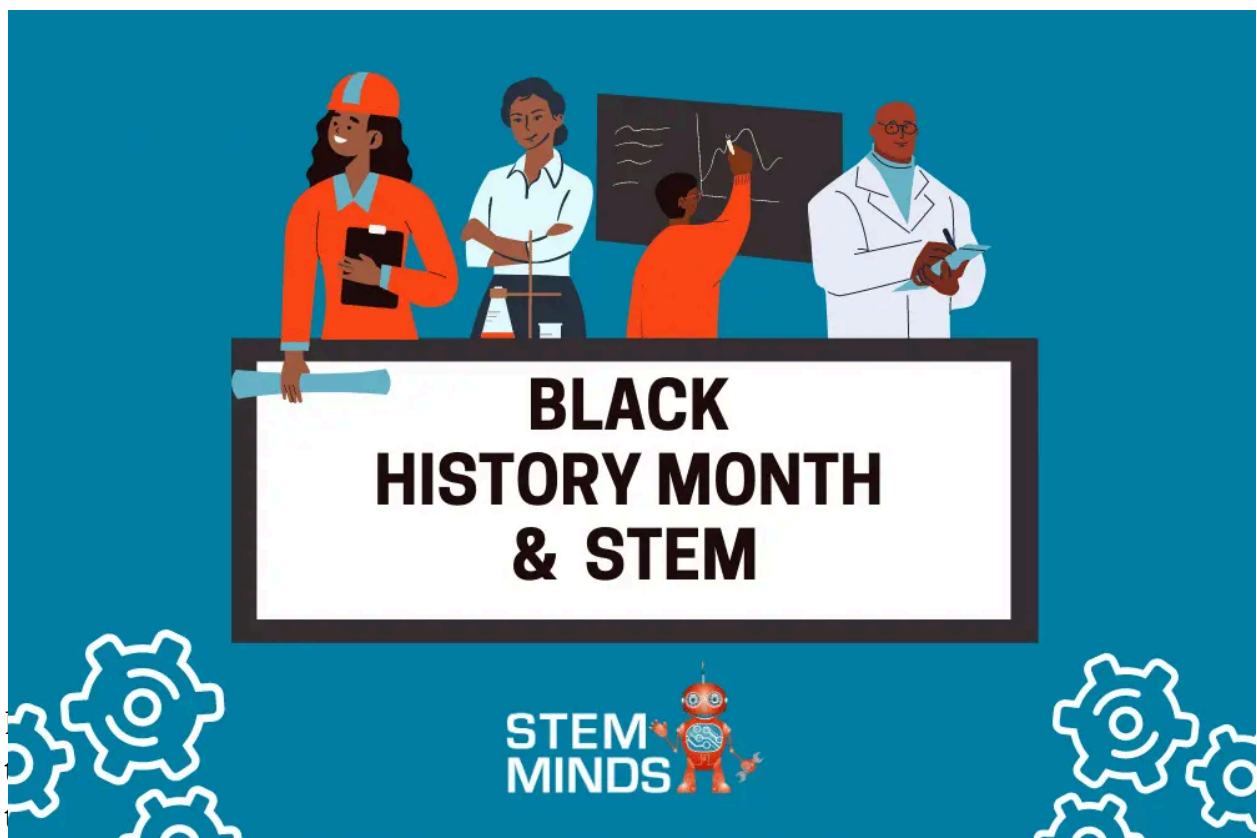
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Greetings!!!!

Happy Friday! We are in the heart of Black History Month and our focus on STEAM Heroes from that Black/African American Community. Scholars and Leaders have continued to show their enthusiasm for our collective history. Just walk the halls of Hope and you will see the pride of a nationality and culture of people who have built the foundations of this country. We salute one another as we are all ancestors of these people. We stand with pride as the torches have been passed to this new generation. Let's continue to celebrate together.



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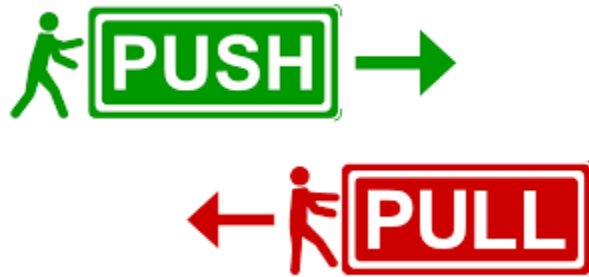
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[Pre-Kindergarten 3 & 4](#)

Our youngest Scholars are studying animals and their habitats. They are all gaining understanding of how animals make our world more fulfilling and livable. We need them and they need us. Our habitats are formed by all of our relationships with each other. They are learning to name, spell, and pronounce words related to animals and different habitats.



[Kindergarten & 1st Grades](#)

Kindergarten and 1st are focused on natural forces found in nature. They are learning Newton's Law through the P3 (Push Pull and Pins) Bowling project. Through various activities that demonstrate the forces of push and pull, Scholars are learning how they are able to navigate this world through the use of muscle and

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bones. They are also learning about gravity and how it keeps us grounded. In addition, they are learning about the wonderful world of bowling as a demonstration of push and pull, as well as a great pastime and sport.



[2nd & 3rd Grades](#)

TinkRworks has recently introduced updates to the **Tech-A-Sketch** project, a modern twist on the classic drawing toy, designed to engage students in grades 3-5 in hands-on STEAM learning. This project enables students to assemble a handheld digital drawing device equipped with a programmable LCD display, buttons, and knobs. Through this interactive experience, learners explore key concepts such as X-Y coordinates, display technology, and coding, fostering creativity and critical thinking.

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[4th & 5th Grades](#)

The TinkRworks Weather Station project offers students in grades 3-5 an engaging opportunity to delve into programming and earth sciences by constructing their own electronic weather monitoring systems. Participants design and assemble devices equipped with various sensors to collect real-time environmental data, fostering a hands-on understanding of weather patterns and technological applications. Here is a video that shows the impact of what has been learned and how our Scholars can morph into exceptional Scientists and Engineers!

<https://youtu.be/YbAKrgVYxbM?si=mTSzug23D0EevyaG>

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6th Grade

The **TinkRdrone** project by TinkRworks offers students in grades 6-8 a comprehensive, hands-on experience in designing, building, and piloting their own quadcopter drones. This project emphasizes the physics of flight, incorporating key concepts such as battery discharge behavior, flight control systems, and Newton's Third Law. Students engage in collaborative discussions, learn specialized vocabulary, and apply mathematical and scientific principles to understand and control drone dynamics, including yaw, roll, and pitch.



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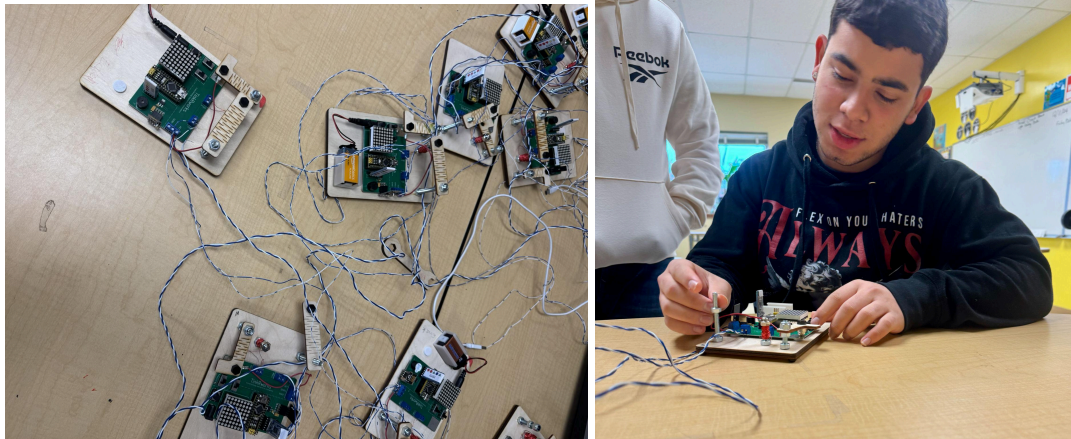
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7th & 8th Grades

The TinkRworks **Morse Code** project offers students a hands-on experience in building and programming their own telegraph systems, enabling them to communicate wirelessly using Morse code. This project is designed to enhance understanding of electronic communication and coding principles. While specific recent updates on this project are limited, TinkRworks continues to feature it as a key component of their STEAM curriculum, aiming to foster creativity and problem-solving skills among K-8 learners.



The STEAM Carnival is coming...

May 2025!!!!

If you would like to volunteer and help our Scholars have a day of fun and celebration of all of their accomplishments, please contact me.

Respectfully,

Jumanne Bradford

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