3D printers club
2018-2019 RESULTS

WHAT HAPPENED
• The 2018-2019 3D Printers Club season was the largest ever! 800 students in 49 3D Printers Clubs designed solutions to real problems using the engineering design process, modeling software, and a 3D printer. They gained confidence as they expanded their design, technology, problem-solving, and leadership skills.

• Most students participated in a 10-week “at school, after school” club in which they experienced the engineering design process using one of two curricula: Problem Solving Inventions (students designed a new product to solve a real-world problem) and 3D Grand Prix (student designed model cars).

• An estimated 20% of club teachers also used the curriculum during the core school day.

• Student projects included portable salt and pepper shakers to eliminate the transfer of germs in restaurants, a “Pop Popper” to help people with mobility issues open pop tabs, and maze runner cars!

It was unbelievable how quickly the students took to the 3D printer and designing things.
- Club Leader

3RD ANNUAL 3D PRINTERS SHOWCASE
• 500 club students showcased their 3D printed designs at the 3rd Annual 3D Printers Showcase hosted by the University of Cincinnati in March 2019.

• The showcase included 17 “exhibitors” who spotlighted how 3D printing is used in the workplace as well as other opportunities for students to build their STEM skills and prepare to join the future STEM workforce.

• Students from Bethel-Tate Middle School attended the showcase as “reporters” to research student projects. Read their report here!

2018 - 2019 HIGHLIGHTS

49 CLUBS in Greater Cincinnati

4th YEAR of clubs

800 STUDENTS in clubs

140 STUDENT EXHIBITS at the 3D Printers Showcase

The technology lets me be creative and make things that are fun and useful.
- Student

40% GIRL STUDENTS
34% AFRICAN AMERICAN STUDENTS
8% HISPANIC/LATINO STUDENTS
8% “OTHER” ETHNICITY STUDENTS
The sense of pride students took in their work was contagious throughout the school.
- Club Leader

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<th>PERCENTAGE OF LEADERS WHO AGREED TO STRONGLY AGREE THAT THE CLUB:</th>
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<td>93% LEADERS</td>
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ON A SCALE OF 1 TO 5, CLUB LEADERS (TEACHERS):
- Found the club valuable for their school: 4.7 leaders
- Would like to lead the club again next year: 4.9 leaders

WHAT HAPPENS NEXT?
- GCSC is prioritizing 2019-2020 club applications and will announce club hosts in mid-October. Club leaders will be trained at the University of Cincinnati on November 12th and November 13th.
- Club authors are putting finishing touches on a third, new curriculum that will be launched in 2019-2020 called “Cleverly Contrived Contraptions”.
- GCSC is seeking funds and volunteers to support as many clubs as possible! If you or your organization are interested to get involved, please contact: gcscstemmed@gmail.com.

“...I feel like I am a leader in my class and didn’t feel that way before.”
- Student

3d PRINTERS CLUB SUPPORTERS