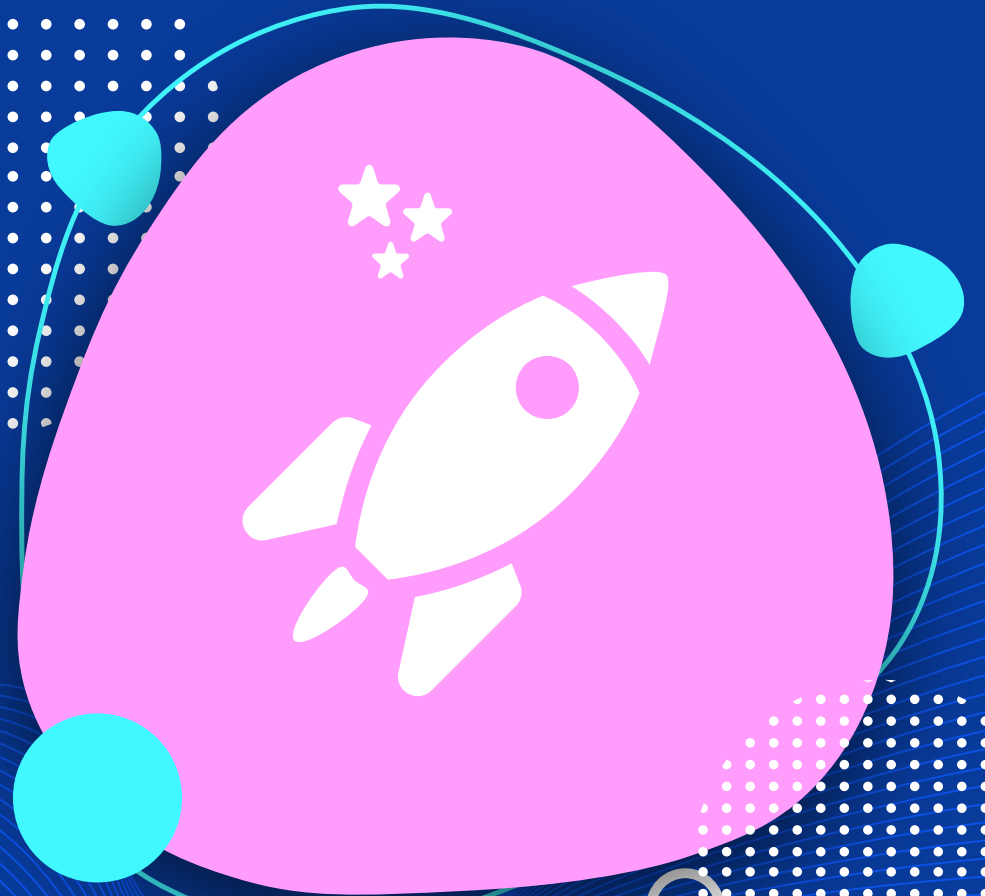


PK-12 *technology &* STEM

Board of Education Presentation
January 23, 2024



This is our *team.*



Mr. Ziccardi

PK-12 Computer
Science Coordinator



Mrs. Costello

Middle School Technology
Instructional Leader



Mr. Bella

High School Technology
Instructional Leader

Orchard Park Master Teachers

Tom Zinteck- Technology & Engineering, OPHS

Adam Ziccardi- Computer Science, OPHS

Maria Coats - Science, OPHS

Brian Dena- Math, OPHS

Joe Bella, Technology, OPHS

Christopher Betrus, Science, OPHS

Evan DeWald, Technology, OPHS

Lukas Gill, Technology, OPMS

Emerson Smith, Elementary Education - STEM, South Davis

Melissa Vuich, Elementary Education, South Davis

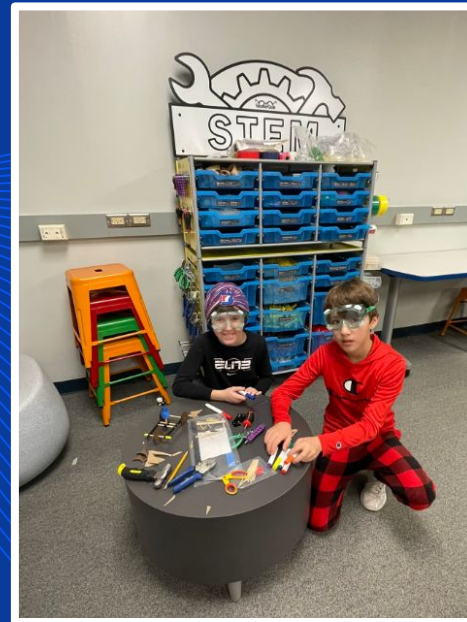
Nicole Costello, Computer Science, OPMS

Jim Roland, Technology & Engineering, OPMS

Pre-K-5 STEM Class

Four C's introduced with project based learning:

- Creativity,
- Collaboration,
- Communication,
- Critical Thinking



Elementary STEM

2017: Addition of Computer Science into Elementary Computer Class through alignment to the ISTE Standards.

2022: Elementary STEM Program was created.



Elementary STEM



Invested federal funds in the creation of the Elementary STEM classrooms to create a comprehensive, Pre-K -12 STEM program.

Elementary STEM



Elementary STEM



Elementary STEM

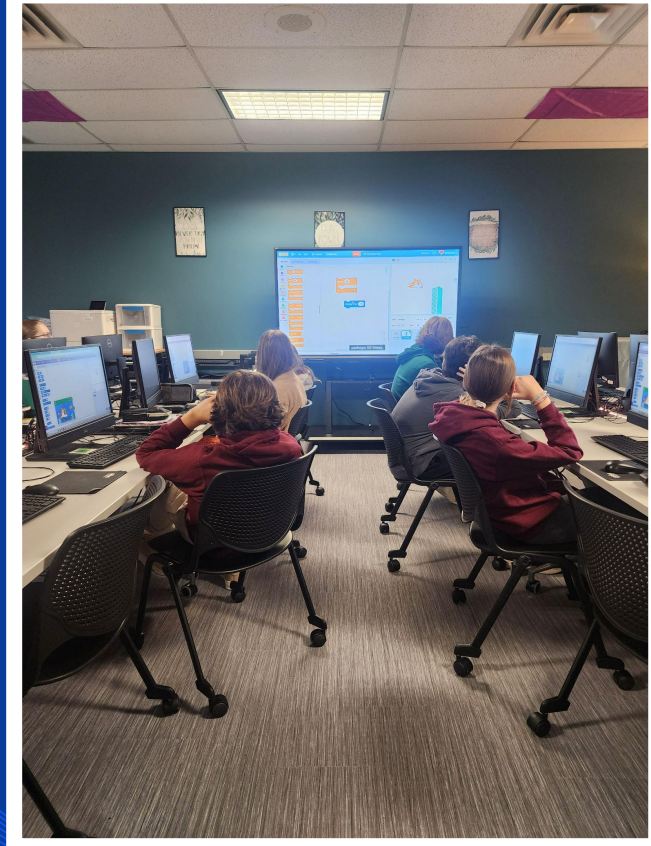




OPMS Technology Education & Computer Science

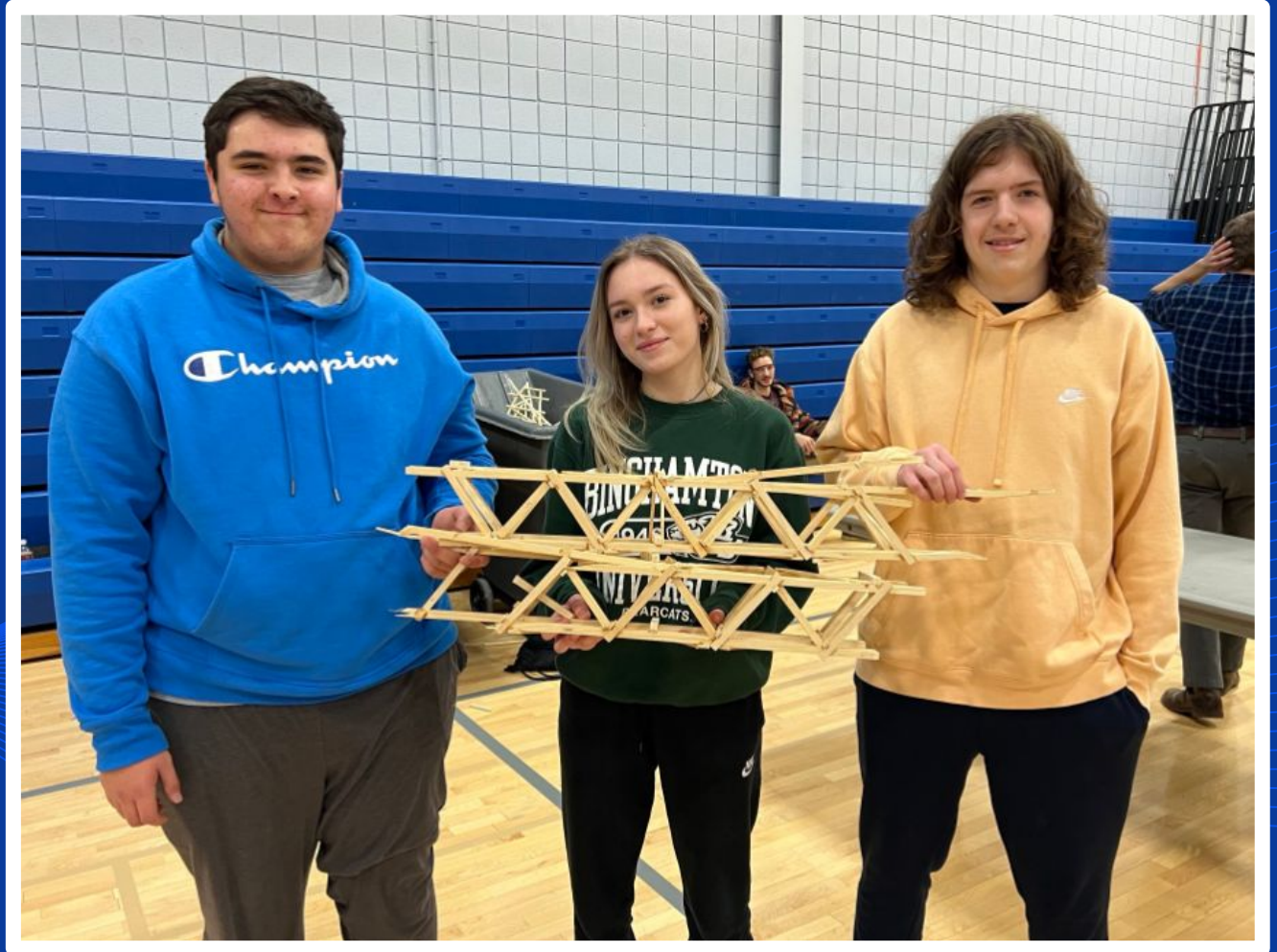
Presented by: Mrs. Nicole Costello, MS Teacher and Instructional Leader

OPMS Technology & Computer Science



Presented by: Mrs. Nicole Costello, MS Teacher and Instructional Leader

OPMS Technology & Computer Science



OPMS Technology & Computer Science



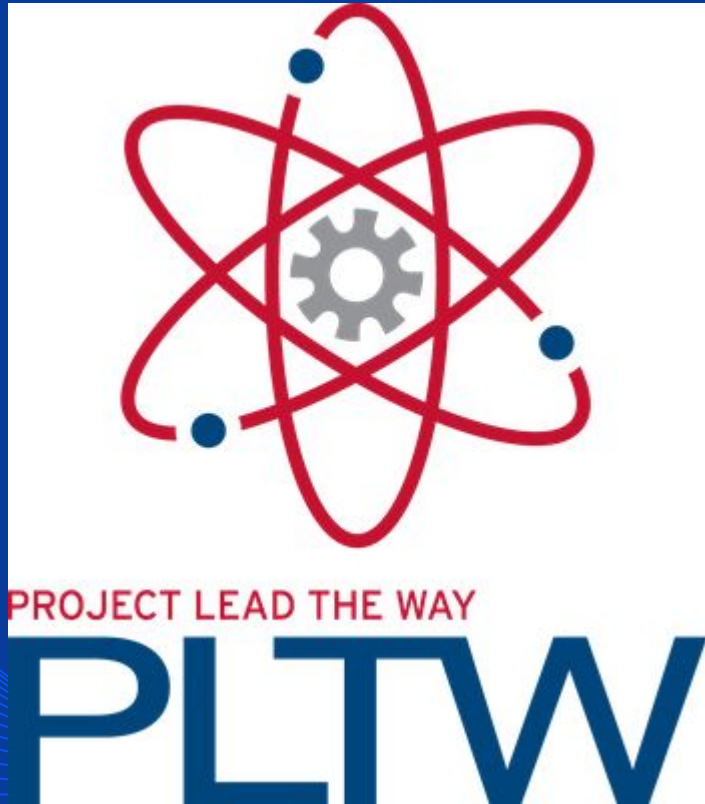
OPMS Technology & Computer Science





OPHS Technology Education & Project Lead The Way

Presented by: Mr. Joe Bella, HS Teacher and Instructional Leader



- Introduction to Engineering Design
- Principles of Engineering
- Computer Integrated Manufacturing
- Environmental Sustainability
- Aerospace Engineering
- Civil Architecture and Engineering
- Digital Electronics
- Engineering Design and Development

BOSS Laser Cutter/Engraver

- 36" x 55" work area





Technology and Engineering Education teaches students practical skills they can use every day, and provides a tangible way to express themselves!



OPHS Computer Science

Presented by: Mr. Adam Ziccardi, Teacher and PK-12 Computer Science Coordinator

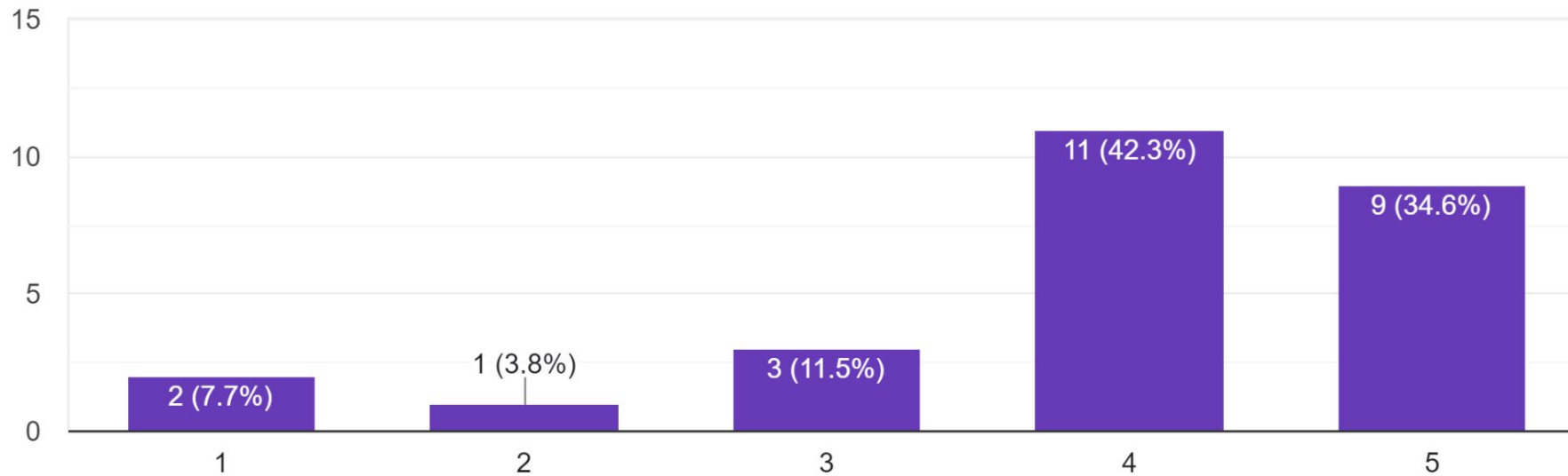




Impact of the Four C's

Do you enjoy the teamwork projects?

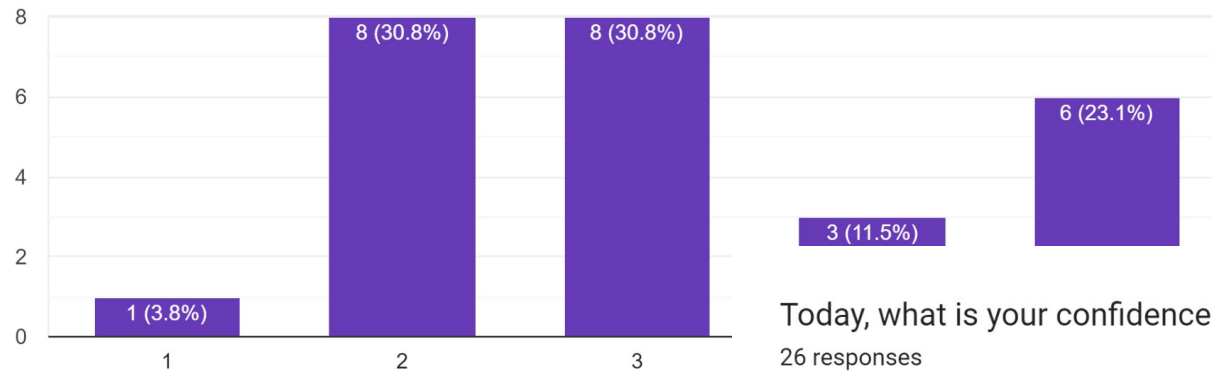
26 responses



Collaboration

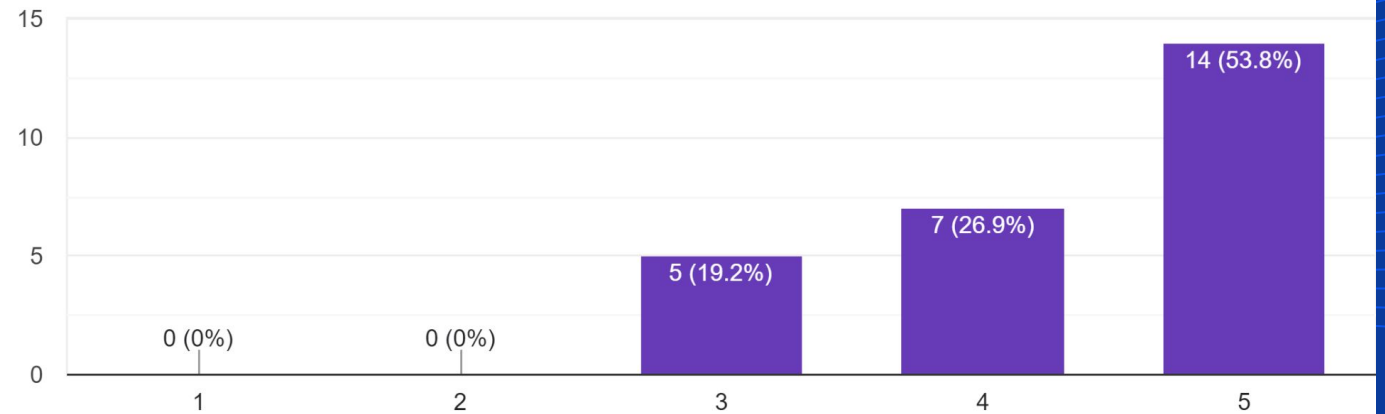
Early in the semester, what was your confidence level with Collaboration?

26 responses



Today, what is your confidence level with Collaboration?

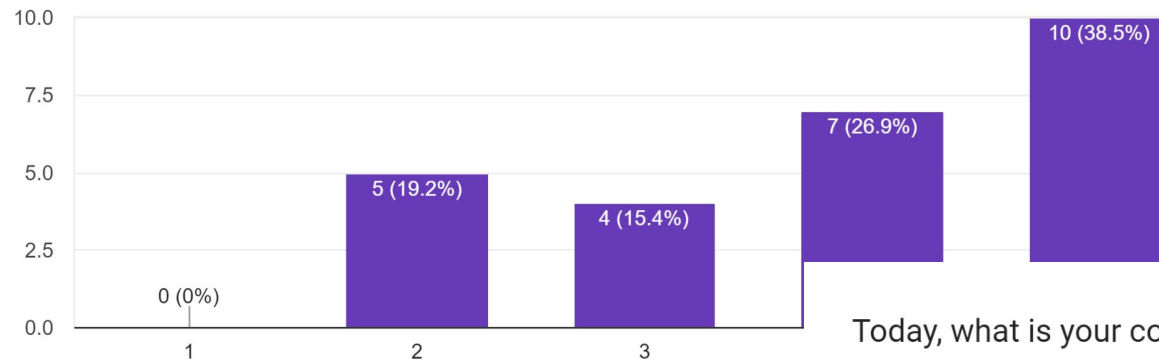
26 responses



Communication

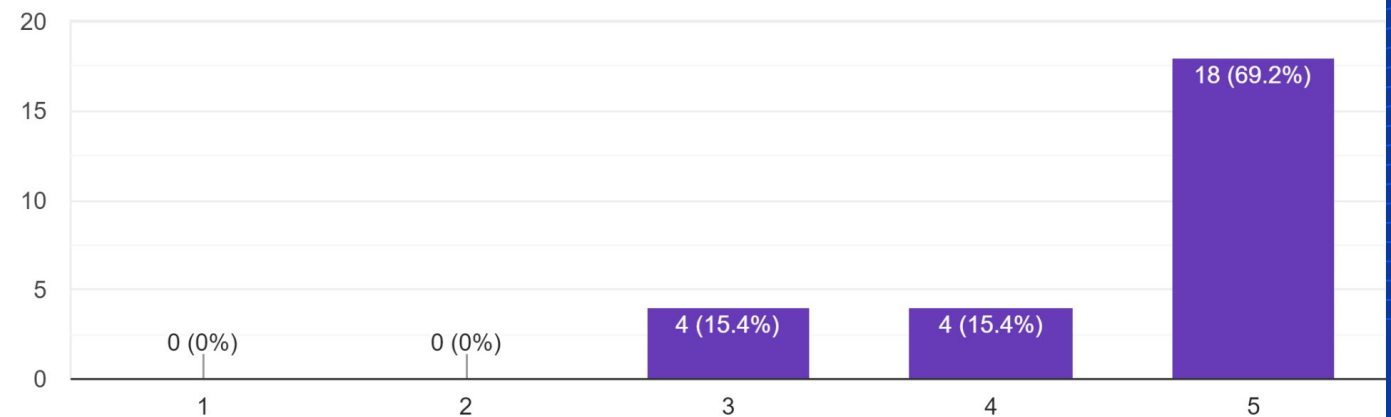
Early in the semester, what was your confidence level with Communication (including email)?

26 responses



Today, what is your confidence level with Communication?

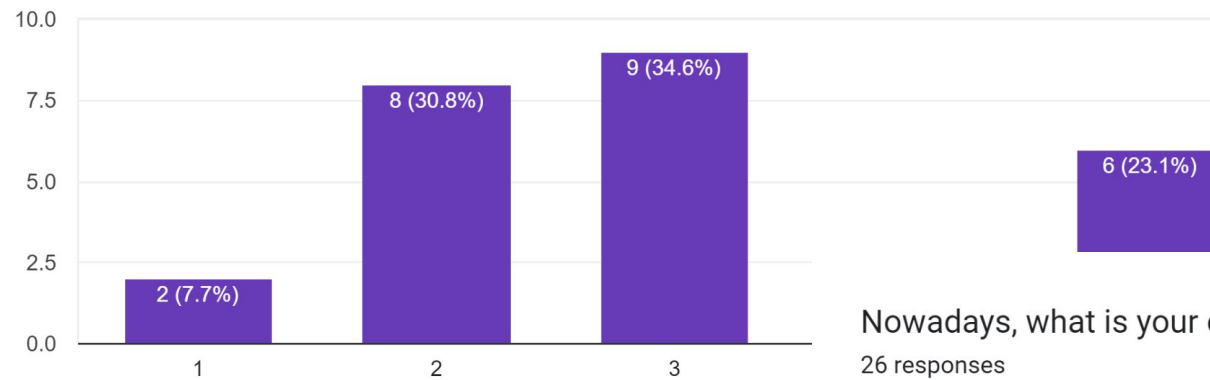
26 responses



Create / Revise

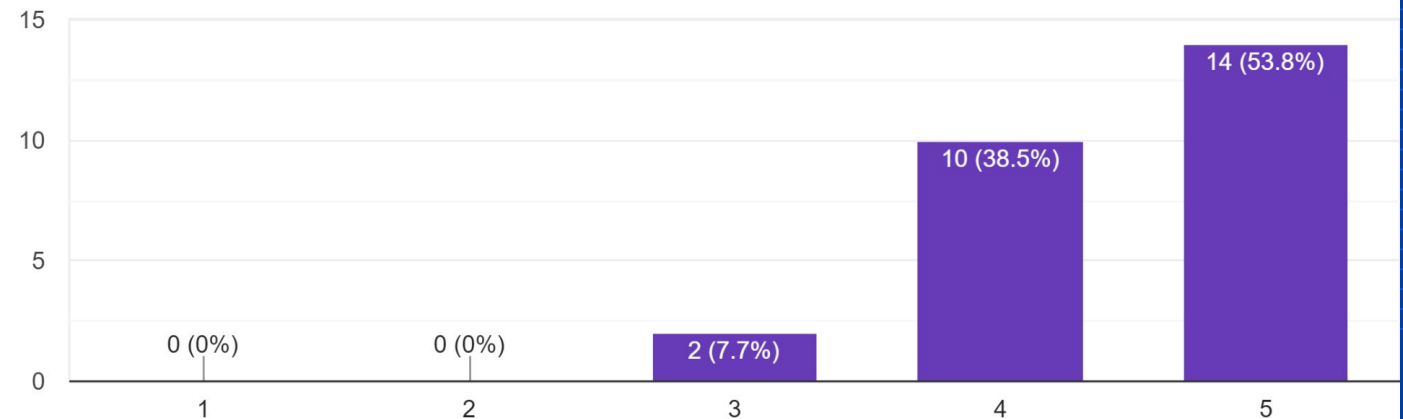
Early semester what was your confidence in "figure it out, make it work"

26 responses



Nowadays, what is your confidence in "figure it out, make it work"

26 responses



The background is a solid dark blue. A large, solid pink circle is centered. A thin teal line curves around the pink circle, with three teal dots at its ends. There are three white circles: one in the top left, one in the top right, and one in the bottom right. Two areas of white dots are also present: one in the top left and one in the bottom right. Wavy lines of varying shades of blue flow across the bottom of the image.

Thank *you!*