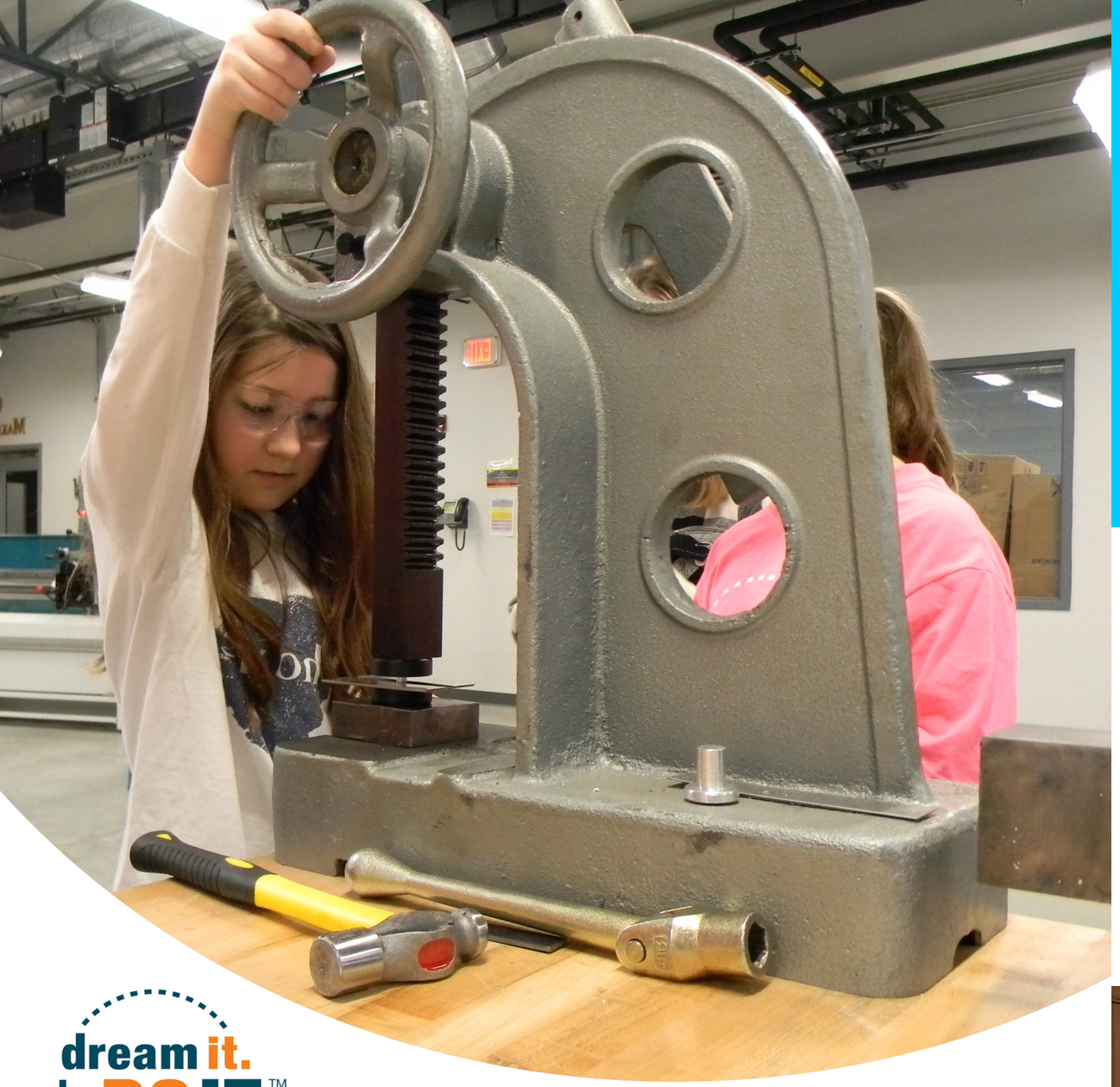


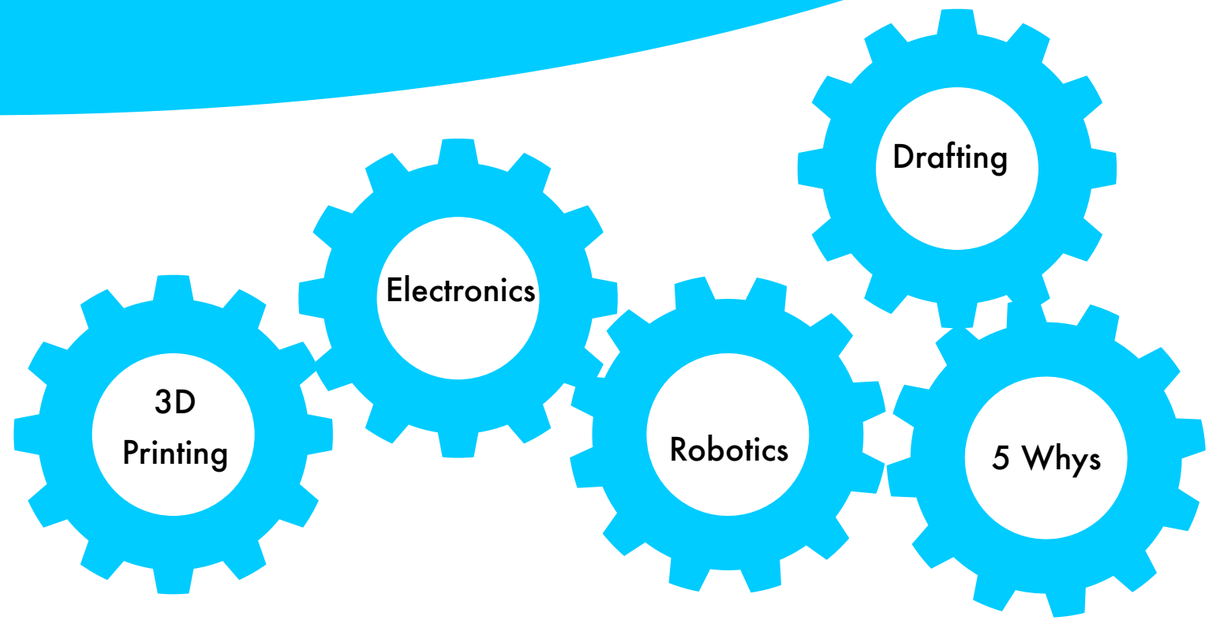
February 2018

Eaton

Young Manufacturers Academy

Dream It. Do It. WNY

JCC Cattaraugus Campus



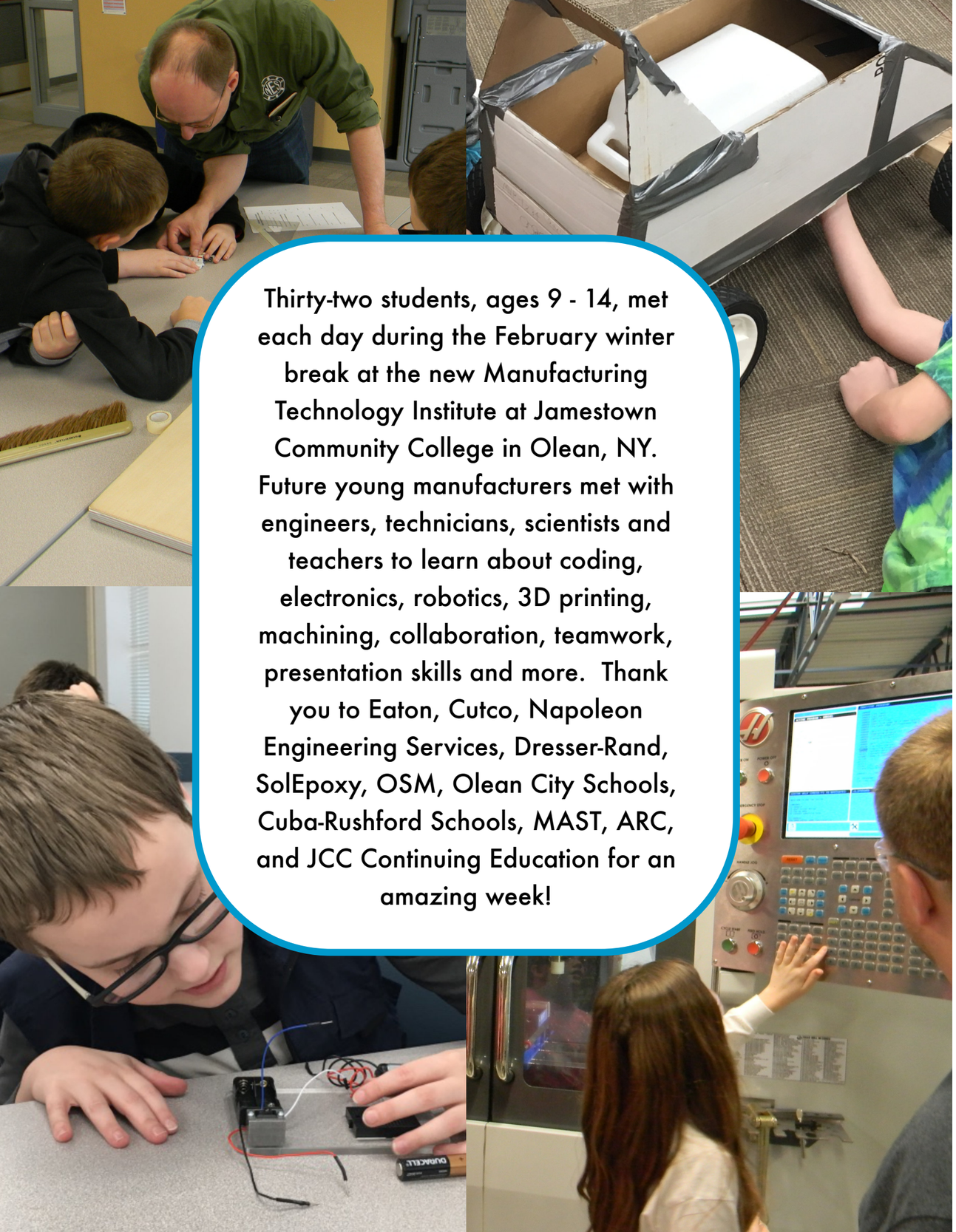
dream it. DO IT.™

MAST MANUFACTURERS ASSOCIATION OF THE SOUTHERN TIER

JCC JAMESTOWN COMMUNITY COLLEGE CATTARAUGUS COUNTY CAMPUS

EATON Powering Business Worldwide

For more information about Dream It. Do It. WNY programs and events, please contact Evelyn Sabina, Program Coordinator at esabina1@gmail.com and didiwny.com



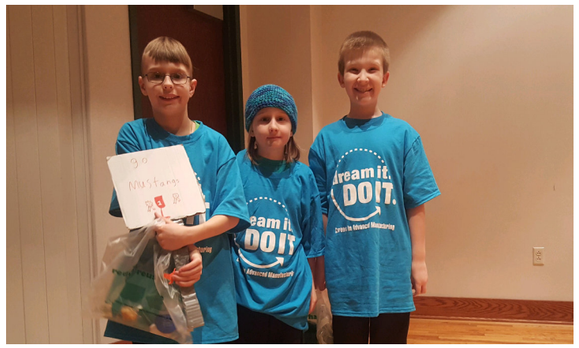
Thirty-two students, ages 9 - 14, met each day during the February winter break at the new Manufacturing Technology Institute at Jamestown Community College in Olean, NY. Future young manufacturers met with engineers, technicians, scientists and teachers to learn about coding, electronics, robotics, 3D printing, machining, collaboration, teamwork, presentation skills and more. Thank you to Eaton, Cutco, Napoleon Engineering Services, Dresser-Rand, SolEpoxy, OSM, Olean City Schools, Cuba-Rushford Schools, MAST, ARC, and JCC Continuing Education for an amazing week!

The Winners! - 1st Place

The War Mechanics - 2nd Place

Black Lightening - 3rd Place

Fireball!



The Mustangs

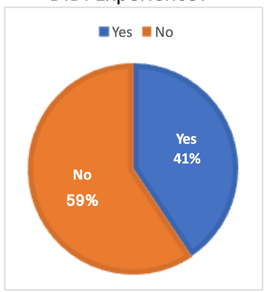
Splitting Speed

New Friends

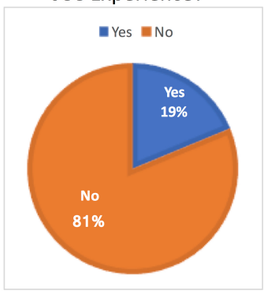
Narnicorn Nation

During the 2018 Eaton Young Manufacturers Academy, students were asked the following questions, at the beginning and again at the end of the week.

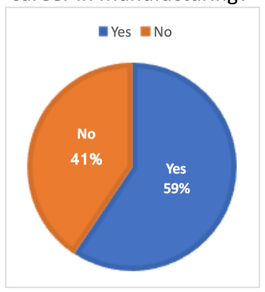
Is this your first DIDI Experience?



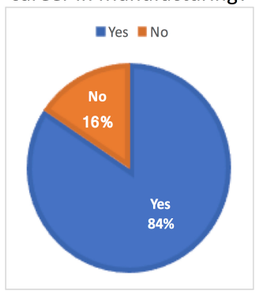
Is this your first JCC Experience?



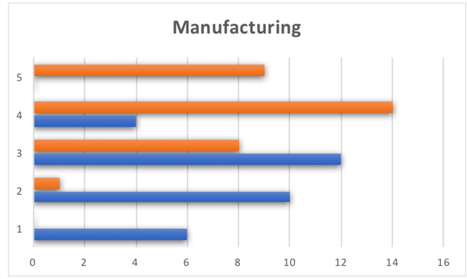
(Before YMA) Would you consider a career in Manufacturing?

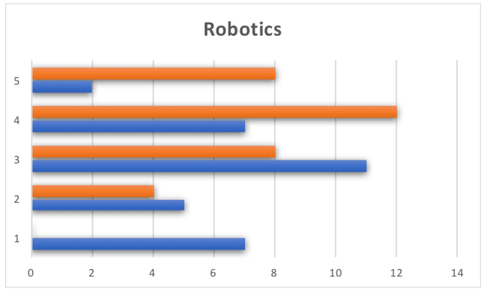


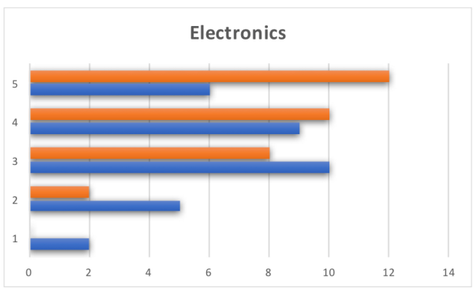
(After YMA) Would you consider a career in Manufacturing?

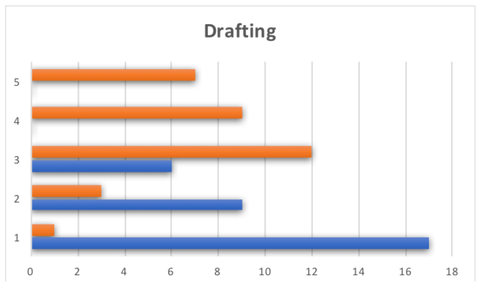


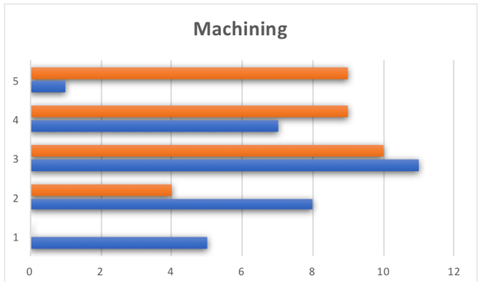
Students were also asked, on a scale of 1(low) to 5(high), "What do you know about Manufacturing, Robotics, Electronics, Drafting, and Machining?" Recorded below are the results. Before After











	Monday		Tuesday		Wednesday		Thursday		Friday	
	Group A	*Group B*	*Group A*	*Group B*	*Group A*	*Group B*	*Group A*	*Group B*	*Group A*	*Group B*
9:00 - 9:30	Registration		STEM Activity		STEM Activity		STEM Activity		STEM Activity	
9:30 - 10:30	STEAM Workshop Christine Gabler	STEAM Workshop Dan Brown	Drafting Workshop NES	Robotics Workshop Christine Gabler	Safety & 5 Whys. CUTCO	Robotics Workshop Christine Gabler	Friction & Scientific Method SolEpoxy	Electronics Workshop Jeremy Martin	CNC Workshop Xavier Smith	Build a Car
10:30 - 10:45	Snack	Snack	Snack	Snack	Snack	Snack	Snack	Snack	Snack	Snack
10:45 - 11:45	STEAM Workshop Christine Gabler	STEAM Workshop Dan Brown	Build a Car	Robotics Workshop Christine Gabler	Build a Car	Robotics Workshop Christine Gabler	Build a Car	Electronics Workshop Jeremy Martin	Build a Car	CNC Workshop Xavier Smith
11:45 - 12:15	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12:15 - 12:30	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity
12:30 - 1:30	STEAM Workshop Dan Brown	STEAM Workshop Christine Gabler	Robotics Workshop Christine Gabler	Drafting Workshop NES	Robotics Workshop Christine Gabler	Safety & 5 Whys. Dresser-Rand	Electronics Workshop Jeremy Martin	Friction & Scientific Method SolEpoxy	Build a Car	Build a Car
1:30 - 1:45	Snack		Snack		Snack		Snack		Snack	
1:45 - 2:45	STEAM Workshop Dan Brown	STEAM Workshop Christine Gabler	Robotics Workshop Christine Gabler	Build a Car	Robotics Workshop Christine Gabler	Build a Car	Electronics Workshop Jeremy Martin	Build a Car	The Race!!	The Race!!
2:45 - 3:00	Clean-up	Clean-up	Clean-up	Clean-up	Clean-up	Clean-up	Clean-up	Clean-up	Clean-up	Clean-up

STEAM Workshop

Coding Roamers

Creating Crystals

Building Marshmallow Catapults

Tessellations

Daily STEM Activities

Theme: Olympics

Daily 3D Activities with Byron Ring, DIDI 3D Ambassador

Drafting

Napoleon Engineering Services

Lego Drafting

Top, side and front views

Designing cars

Robotics

Lego EV3 Mindstorm Robots

Designing and building robot

5 Whys & Safety

Problem solving and troubleshooting

Safety tips

Building cars

Robotics

Programming robots

Obstacle course

Presentations

3D Hood Ornaments

Friction & Scientific Method

SolEpoxy

Friction Activity

Form Hypothesis

Analysis

Building cars

Electronics Workshop

Building a circuit from scratch

CNC Machining

Machining, grinding, engraving, and assembling a **Yo Yo**

Completing and testing cars

Final race and presentation to parents, friends and area engineers

What a wonderful week!