

**Carney Foundation Grant
St. James St. John School
2018**



Prepared by:

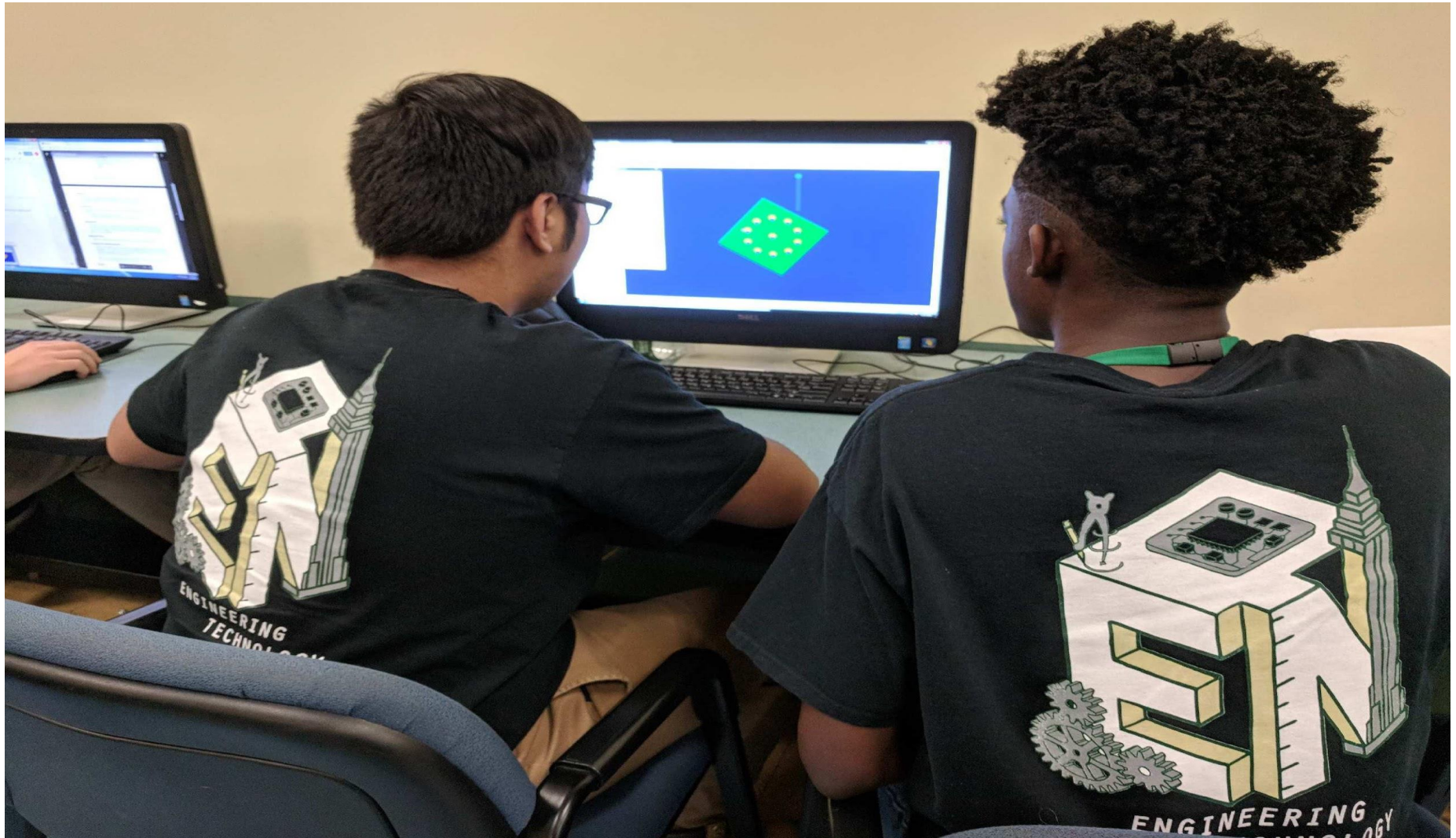
D. Costa & J. Vareika



Science & Technology at St. James St. John

- The acquisition of a 3D printer allows teachers of middle school students to work collaboratively
- It allows teachers and students to blend academic learning with digital media
- Students work independently with guidance and direction from the teachers
- Students take responsibility for their pace of learning
- Allows teacher to differentiate instruction
- Students are responsible for their own outcomes

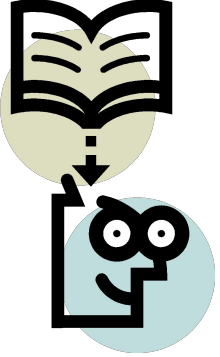
Community Partners



Obstacles

- Naivety
- Enormity of undertaking
- Neglected Items
- Training





Innovation and Invention

- Encourages students to be creative thinkers
- Sparks curiosity
- Teaches students to engage with the world around them
- Asking the “why?” or “how?” and having them reason and research, expands their worldly experiences
- Immersive experience allows them to soak up new knowledge

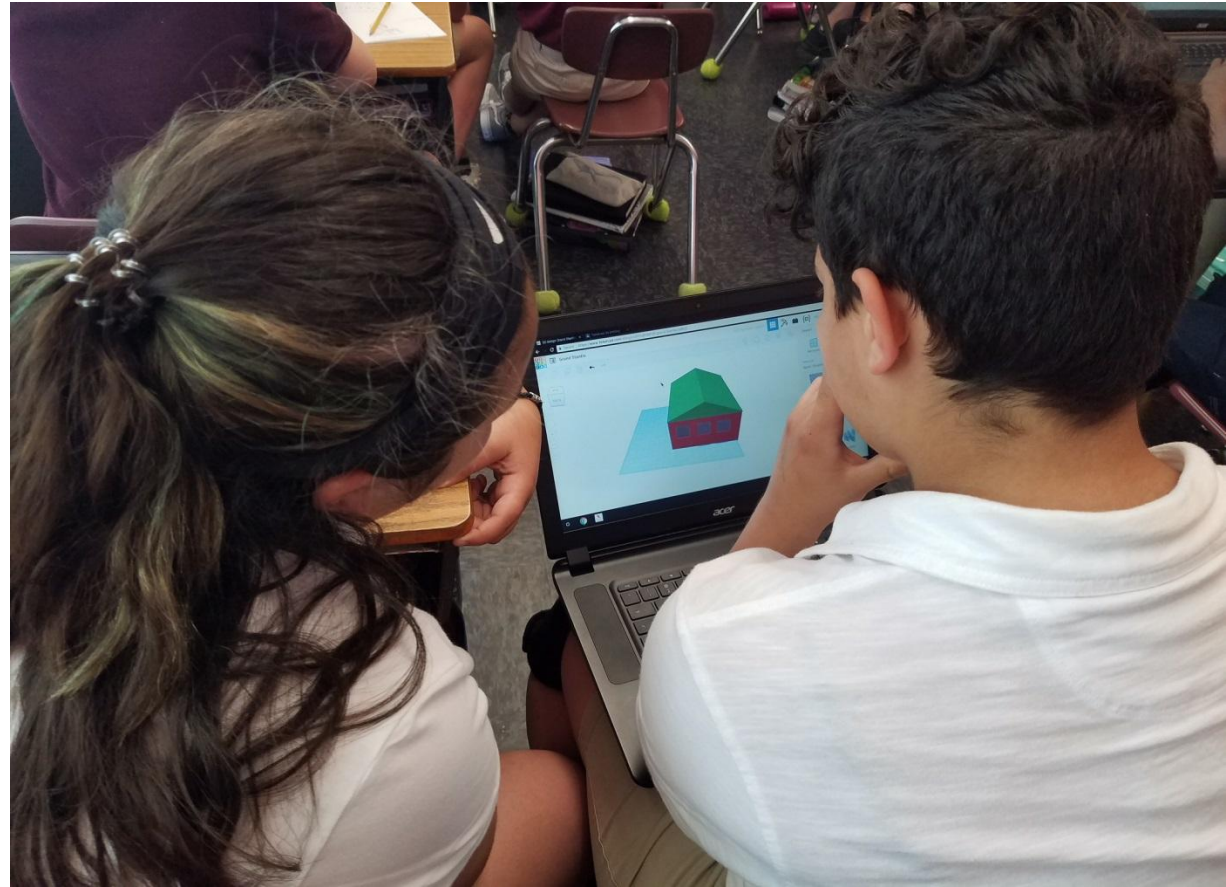


Student Assignment

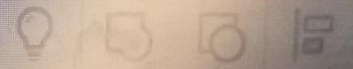
Invent something that can be used or displayed in the classroom.

Guidelines

- Work alone, with a partner, or in a group
- Invent or create an item that can be used or displayed in the classroom
- Take into consideration the capabilities of the 3D printer







Shape



Solid



Hole

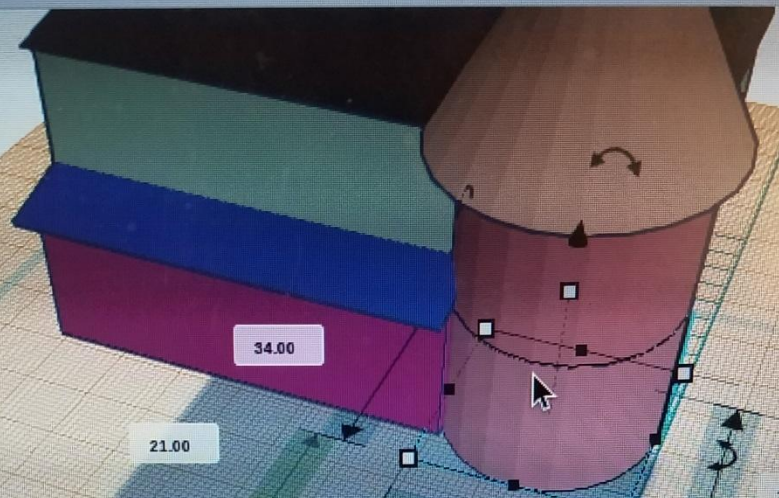
Sides 20

Bevel 0

Segments 1

Edit Grid

Snap Grid 1.0 mm



34.00

21.00

31.00

32.00

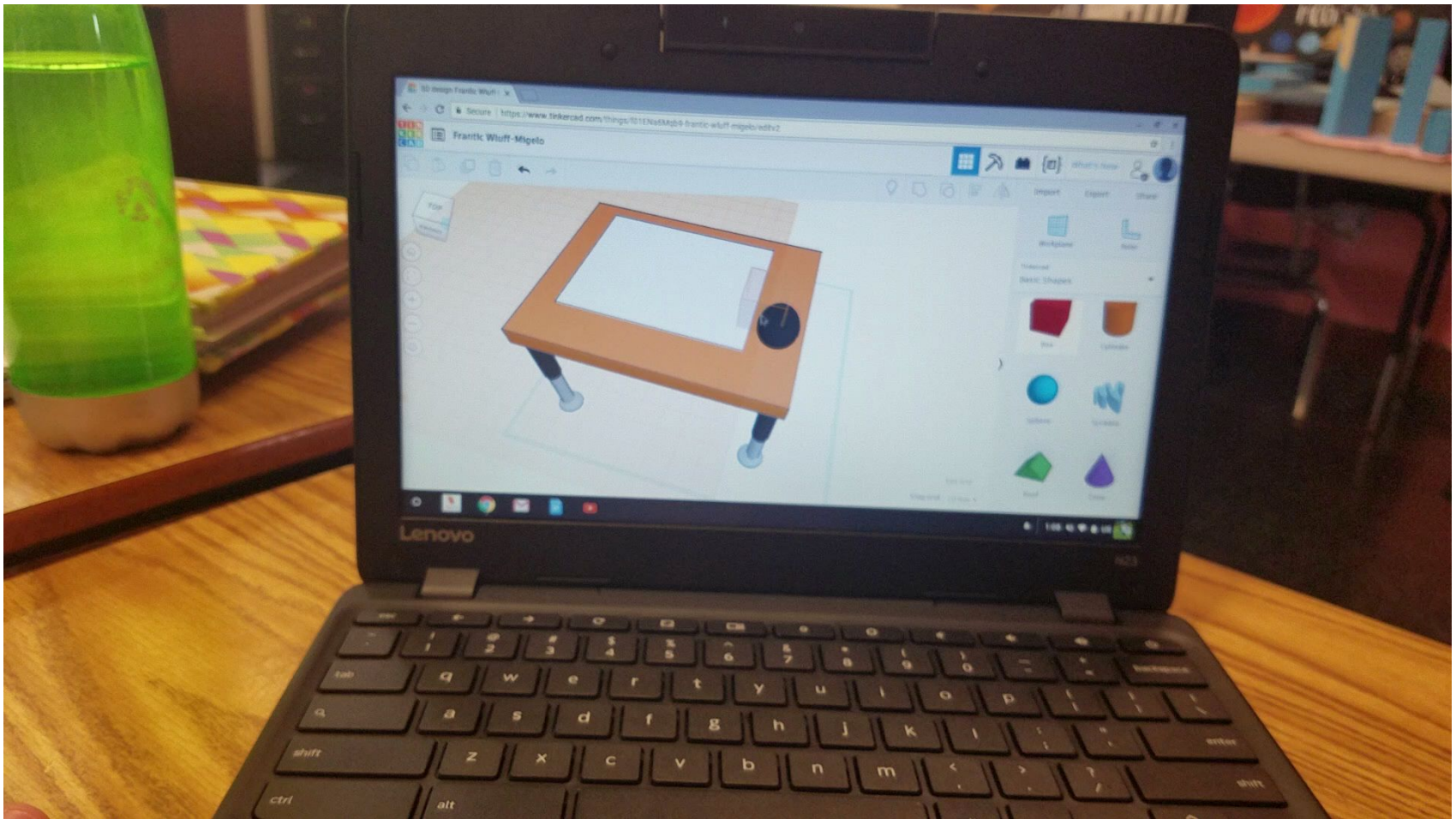
20.00

Workplane



acer

Students in action



SUCCESS!

- *The 3D printer has created excitement in our students
- *It has sparked a new interest in engineering and design
- *Fosters creativity and innovation
- *Supports students working collaboratively
- *Formed community connections
- *Offers our students new experiences and possible future opportunities



Heartfelt ***thank you*** to the
Carney Foundation!

*Supporting Catholic education and
helping to build leaders of the future.*

