A blue ballpoint pen with a silver-colored tip and barrel accents is positioned diagonally across the left side of the image. It rests on a document featuring a bar chart with several blue bars of varying heights. The background is a light blue and white grid. A large, semi-transparent white circle with a thin blue outline is on the right side, framing the text.

# Superintendent's Report

January 2024

Syosset Central School District

# The 4<sup>th</sup> Industrial Revolution

First



Machines  
Replace  
**Manual** Labor

Second



Electricity  
Accelerates  
Mechanization

Third



Technology  
Replaces  
**Skilled** Labor

Fourth



Technology  
Replaces  
**Knowledge**  
Labor

The World Economic Forum Annual Meeting 2016 in Davos-Klosters, Switzerland was titled “Mastering the 4<sup>th</sup> Industrial Revolution”

[http://www3.weforum.org/docs/AM16/AM16\\_MeetingOverview.pdf](http://www3.weforum.org/docs/AM16/AM16_MeetingOverview.pdf)

# Are Jobs Disappearing... or Changing?

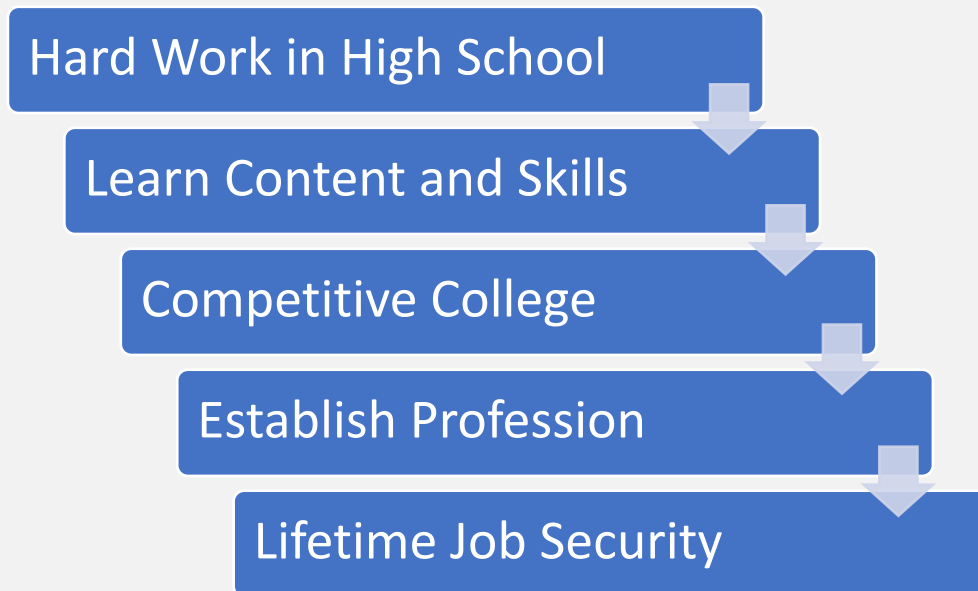
**“...we are being a little bit myopic. It's so easy to identify ... the job functions that are going to be replaced ... with AI.**

**And it's so much harder to imagine the things that will be borne out of that innovation and the new industries ... and the new job functions that (will) emerge.”**

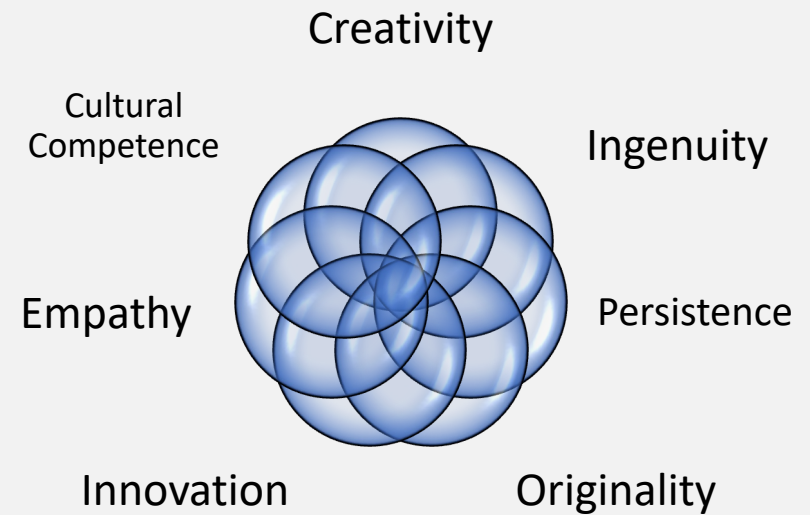
~Aaron Levie, co-founder and CEO of enterprise cloud company Box.

# Transcending Content to Teach Skills

## Content-Based Paradigm



## Skills-Based Paradigm



# Two Types of Work From: Drive by Daniel Pink

## Algorithmic Work

- Focused on compliance.
- Narrow, discrete, known behaviors or skills.

**Easy** to Replace  
with Technology

## Heuristic Work

- Creativity
- Ingenuity
- Persistence
- Originality
- Innovation
- Empathy
- Cultural competence

**Hard** to Replace  
with Technology



# Our “WHY” – our children’s futures

*“We are attempting to educate students today  
so that they will be ready to solve future problems  
that have not yet been identified using technologies not yet invented  
based on scientific knowledge not yet  
discovered.”*

*~J.J. Lagowski*

# Bloom's Taxonomy

