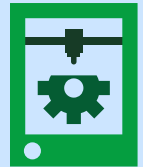




STEM Lab vs. Fab Lab

Which One is Right for Your School?



STEM Lab

Fab Lab

Focus

- Scientific method
- Data collection
- Engineering design process

End goal: Understand the science behind experiments

- Fabrication and Making
- Design, create, and prototype physical objects

End goal: Physical Creation

*To be considered an *Official Fab Lab, it must be made available to the community.*

Curriculum

- Often align with curriculum standards and educational objectives
- Reinforce classroom learning

- Project based and open ended
- Students use design thinking principles
- Entrepreneurial

Common Equipment

- Robots with coding programs
- Drones with coding programs
- 3D printers and design programs
- VR headsets
- Circuitry kits

- 3D printers
- Laser cutters and engravers
- CNC Machines
- Direct to garment printers
- Paper and vinyl cutters

Similarities

- Integration of technology
- Prepare students for future careers in Technology, engineering, and mathematics
- Foster creativity and innovation
- Hands-on learning



STEM Lab Use Cases

- Designing and creating prototypes for a needed item or for experiments
- Learning and practicing different programming languages
- Integrating technology to explore and understand how it works

Foundations

- Incorporate throughout grades K through 12
- Integrate within a specific class or utilize as a reservable space open to all classes
- Curriculum-driven & learning process-oriented
- Develop science, math, and engineering skills
- Use technology to create and collaborate



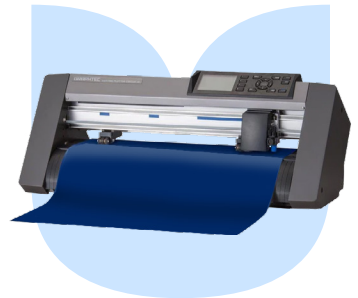


Fab Lab Use Cases

- High school marketing class project - Create a small business
- Middle school project-based learning
- Middle or high school entrepreneur's club

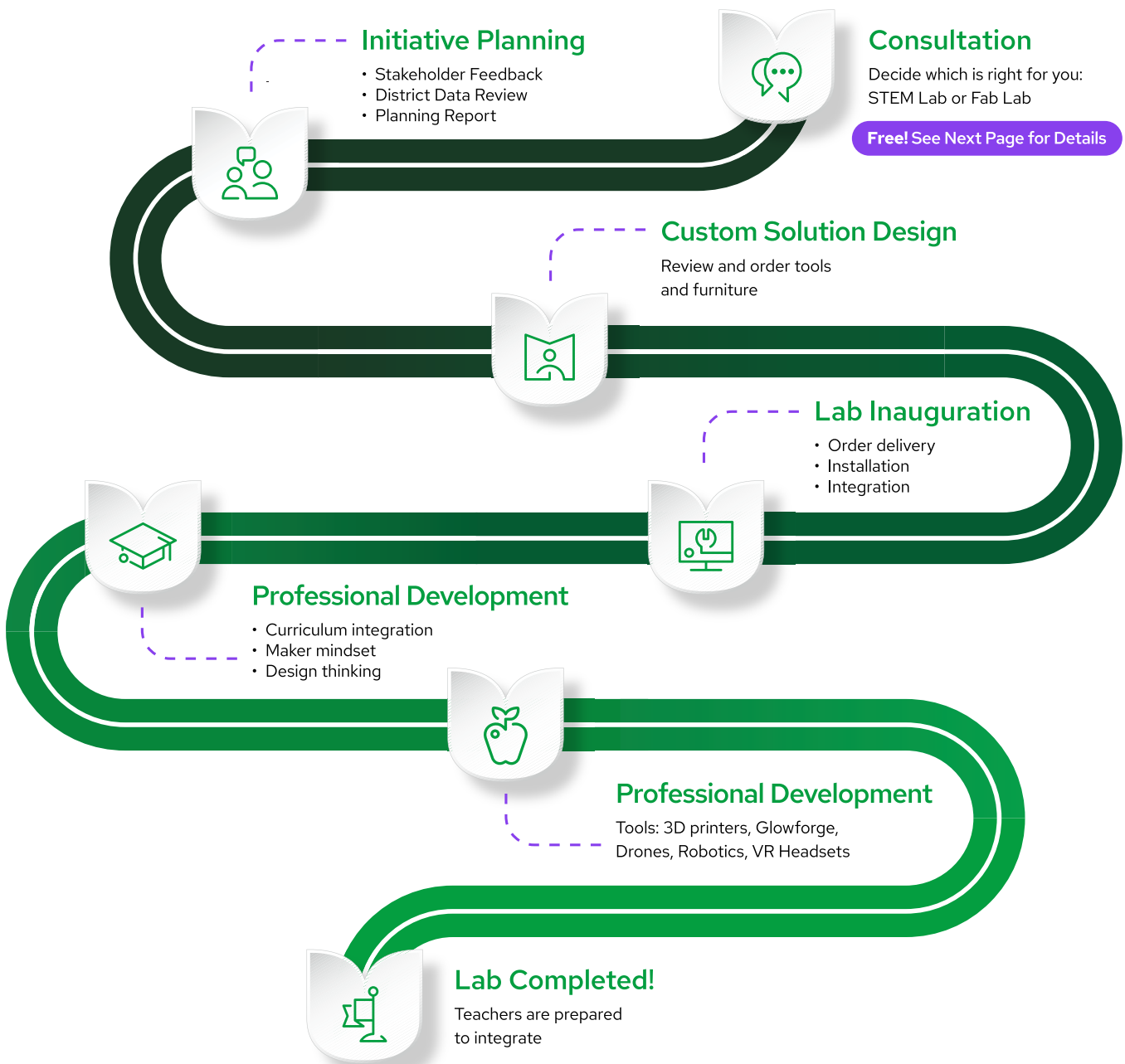
Requirements

- Must be open to the public
- Must support and subscribe to the Fab Charter
- Have a common set of tools
- Suite of electronic components and programming tools
- Need to be a part of the global Fab Lab community





Navigate Your **Path to Success** With Bluum





Bluum Supports Your STEM Lab, Fablite Lab, or Fab Lab Initiative

Your Vision, Our Mission

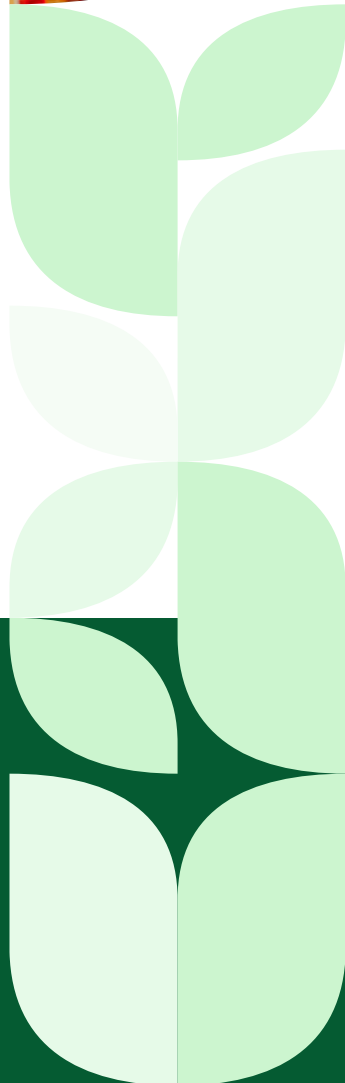
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