

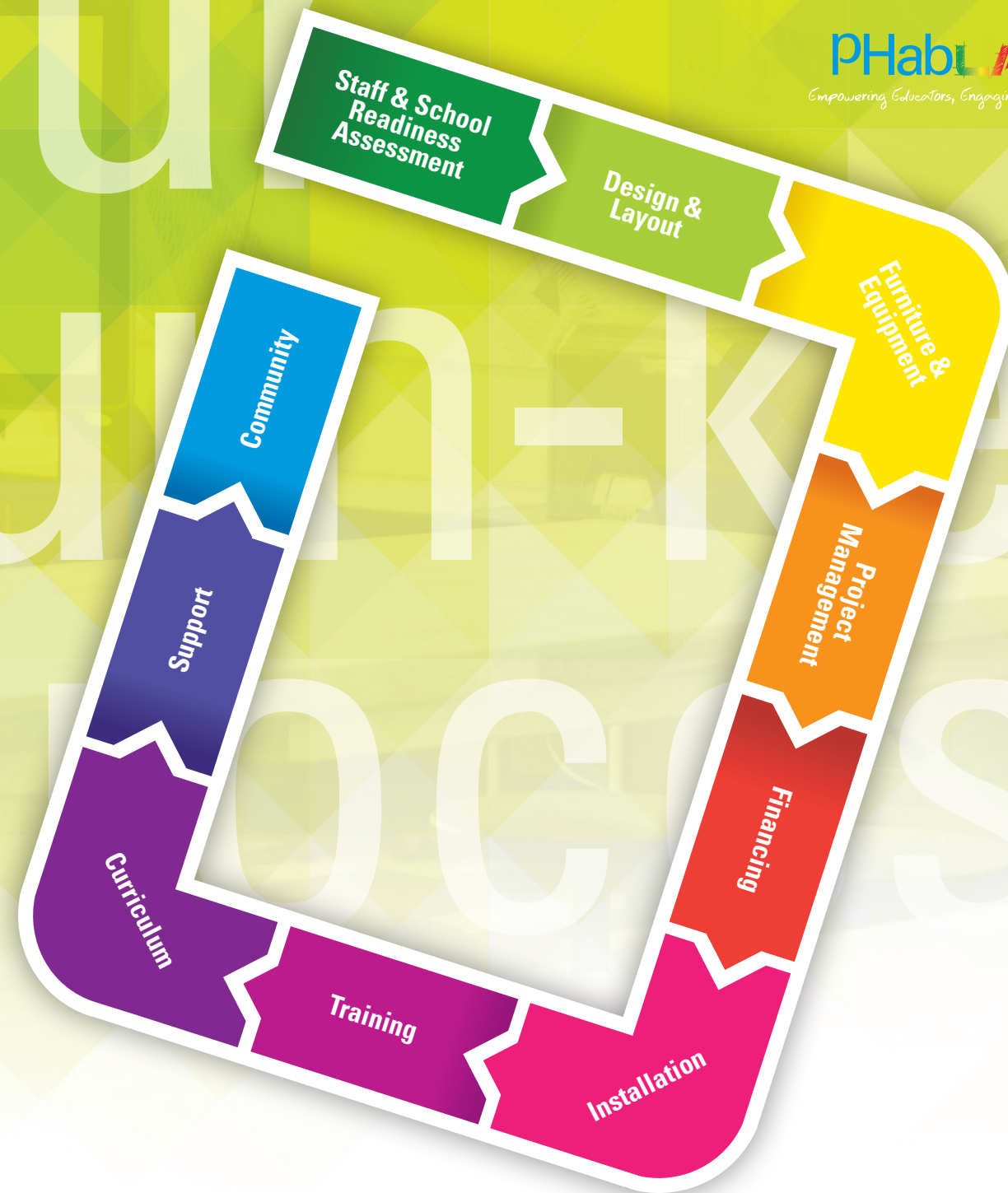
fab lab

turn-key solutions

process

PHabLAB

Empowering Educators, Engaging Students



Our Turn-key Process: PHabLAB Implementation and Support Solutions.

1

Staff and School Readiness Assessment

- Orientation on overall K-12 fab lab planning and development process.
- Conduct initial strategic and stakeholder planning.

2

Design & Layout

- Pre-design consultation with students and staff.
- Design presentations of layout, graphics and furnishings.



3

Furniture & Equipment

PalmerHamilton provides a selection of furniture to meet the needs of the space:

- Rally™ Table – Sit or stand, learn, make, collaborate.
- Story Table – Available in three heights to create stadium seating for training.
- Discovery Table – Storage built into the table.
- Fusion Table – Collaborate or move for individual study.
- Inspiration™ Table – Versatile table with various heights.
- Chairs – mobile, adjustable height chairs (Kendo or task chair).
- Storage Carts – Store all of your supplies and lock for safety.

Equipment selections for project-based learning:

- Dremel® 3D Printer – Design and print almost any object.
- Dremel® Laser Cutter – Cut and engrave a variety of materials including wood, stone, glass, fabric, paper and leather.
- Tormach® CNC Router - Hands-on STEM education to teach real world manufacturing skills.
- Jamboard – Virtual whiteboard used for collaboration.
- Storm Virtual Presence™ - Digital equipment used to share resources from classroom to classroom.
- SparkFun – Electronic kits for hands-on learning and problem solving.

4

Project Management

A Project Manager will plan and organize the installation process.

5

Financing

National Cooperative Leasing (NCL) can help you purchase your fab lab! NCL is an independently owned company providing financing solutions for government and educational agencies throughout the nation.

- Approval Process – Simple and fast same day approval.
- Flexible payment options – The payment is tailored to suit the needs of each agency. Options are annual, semi-annual, quarterly and monthly payment intervals.
- Nothing down – For the majority of the financing plans, there is no down payment or security deposit required.

6

Installation

Our experienced and trained team will install all the art, graphics, furniture and equipment for your fab lab.

7

Training – NC3

- National Coalition of Certification Centers - A network of leading educational institutions and globally competitive industries that embody passion for innovative models that produce sustainable highly skilled workforce.
- Training and certification standards provided for education.

8

Curriculum

- Provides educational curriculum to prepare students for career success.
- K-12 STEAM program aligns with Common Core and other state standards.
- Combines design process with technology, emphasizing creativity, critical thinking, problem solving, teamwork, collaboration and effective communication.
- Up to 71% of students agreed that their understanding of technology and the ability to solve technical and design challenges significantly improved after completing the programs. (Assessment by Carnegie Mellon University 2016)

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Support

- Level 1 Support – One phone number to call for all of your questions.
- Customer Experience Team will provide orientation on how to order supplies and materials, request warranty/tech support and register for additional training.
- Customer Experience Team will follow up every 60 days to check on upcoming needs or questions.

10

Community

- Local Community – After school usage of the fab lab to the community.
- Parents and Families – School's vision, types of projects/curriculum and key features of the lab.
- Government and Commerce – Skill's students will develop and the value to the community.
- Industry Advisory Council – Supports school districts fab lab initiatives and vision by providing input and recommendations from an industry perspective.
- Students – STEAM/STEM skills learned in the fab lab that relate students to future real world skills.
- Economic Development – Students will be prepared to work in local community business and support local growth.





our partners:



DREMEL



associations and purchasing groups:



palmer HAMILTON

PHabLAB

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