CRAFTING THE SUCCESSFUL MAKER PROGRAM

Image: Buffy J. Hamilton - @buffyjhamilton
CRAFTING =

PLANNING + EXECUTION
MAKERCAMP SUMMER 2014

- Developed in Partnership with Norcross High School - Media Center
- 4 Days, 3 Hours Per Day
- MakerBot Replicator 2
- TinkerCad
- Google Drive

MAKERCAMP WINTER 2014

- Developed with GCPL Staff Members to grow knowledge in-house
- 3 Days, 4 Hours Per Day
- MakerBot Replicator, MakerBot Mini
- TinkerCad
- Google Drive
THIS IS ABOUT AN IDEA.
NOT A THING.

IT COULD BE ANY...THING.
DEMOS ARE INTERESTING
DEMOS ARE MEMORABLE
DEMOS ARE NOT LEARNING
“Tell me and I forget.
Teach me and I remember.
Involve me and I learn.”

*QUOTE COMMONLY ATTRIBUTED TO BENJAMIN FRANKLIN | CHINESE PROVERB*
TECHNOLOGY AS CONDUIT FOR (FUN) LEARNING

Boys! Just Look at the Big, Strong Models You Can Build

It's great fun to build strong bridges, high towers and skyscrapers, battleships,inclined railroads, machine shops, aeroplanes and hundreds of other models just as interesting.

I know what boys like. I make Erector girder sets in interlocking edges so you can build remarkably big, strong models—some 21 feet long, some 8 feet high. Erector is the only construction toy with girder sets exactly like real structural steel. The electric motor (free with most sets) runs many of the models. It's the most powerful toy motor made.

Write for Free Book and Three Free Issues of My Boys' Magazine

What it is is beautiful.
WE HAVE THE CARROTS
EDUCATION

PARTNERSHIPS

COMMUNITY
LIBRARIES = LEARNING = EDUCATION
A STRATEGIC FIT MEANS BUY-IN

Image: Theshelfs (deviantart.com)
PARTNERSHIPS

“Alone we can do so little; together we can do so much.”

—HELEN KELLER
MAKER CAMP

PARTNERS:

BUFFY HAMILTON
JENNIFER LUND

NORCROSS HIGH SCHOOL
MEDIA SPECIALISTS
NHS HANDS ON DEMO
COMMUNITY

MAKING CONNECTIONS
“Makerspaces encourage personal interaction, not just online interaction. Makerspaces encourage geographic-based communities, not just virtual ones.”

“MAKERSPACES - WHY NOW, WHY BOTHER”
GREG RICHARDSON, FOUNDER
7HILLS MAKERSPACE - ROME, GA
HTTP://7HILLSMAKE.ORG/2012/03/04/MAKERSPACES-WHY-NOW-WHY-BOTHER/

“Part of the concept behind Connected Messages is asset-based community development: We wanted the youth to focus on the positive things about their community, and the things they love and care about. This enabled them to take ownership over their participation in the project.”

“MAKER JAWN AT FREE LIBRARY OF PHILADELPHIA: CONNECTED MESSAGES”
THE LIBRARY AS INCUBATOR PROJECT
K-FAI STEELE, TEEN PROGRAMMING SPECIALIST
FREE LIBRARY OF PHILADELPHIA
HTTP://WWW.LIBRARYASINCUBATORPROJECT.ORG/?P=12606
COMMUNITY
CONNECT TO YOUR PROGRAMS

I like the Polony and technology station.

My favorite station was the 3D printer. Smill.

Naim Smith
MAKING IT HAPPEN

PLACES

TOOLS

PEOPLE
MAKERCAMP VS. MAKERSPACE
WHY WE CHOSE PROGRAMMING OVER A DEDICATED SPACE.

- FLEXIBILITY IN SPACE(S)
- FLEXIBILITY IN STAFFING
- EXPANDED PARTNERSHIPS
- MINIMAL EQUIPMENT
- EASILY REPRODUCIBLE
- PILOT APPROACH
- LOW COST OF ENTRY
  - FINANCIAL
  - EDUCATIONAL
  - FAILURE
OUR MAKER(SPACES)

Shared Space:

- Social Gravity
- Community Engagement
- Resource Promotion
- Local Staff Buy-In

Dedicated Space:

- Participant Engagement
- Participant Collaboration
- Resource Space Availability
- Expanded Multimedia Access
TOOLS AND RESOURCES

3D PRINTING
TOOLS AND RESOURCES

CHROMEBOOKS

8+ Hours Battery
Lightweight
Portable
HDMI-Out
USB 2 and 3 Ports

Alternative: Laptop & Browser
TOOLS AND RESOURCES

GOOGLE APPS (DRIVE)

Alternatives:
- Cloud Storage
- E-Mail
- USB

Apps Accounts
Chromebook Login
MakerCamp Files:
- Storage
- Sharing
- Organization
TOOLS AND RESOURCES

TINKERCAD

Lesson: Camera controls

Lesson: Creating holes

Begin Lesson

Begin Lesson
PEOPLE
STAFF
TRAINING

MAKERCAMP APPROACH:
• ONLINE LEARNING
• HANDS-ON EXPERIENCE
• TROUBLESHOOTING SESSION
• STAFF LEARNING PROJECTS:
  • CREATION
  • REVIEW
  • PRINTING

BUY-IN
PEOPLE
MAKERCAMP CREATIONS
THANK YOU!

QUESTIONS?

CHRISTOPHER K. BAKER
TRAINING MANAGER
CHRISKBAKER@GMAIL.COM

MICHAEL E. CASEY
DIRECTOR - INFORMATION TECHNOLOGY
MICHAEL@MICHAELECASEY.COM

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WWW.GWINNETTPL.ORG