



Collegial Circle Final Report

Please type in the information on this form, print it and send it to the Teacher Center along with the Collegial Circle copies in the check list below. Also, attach it to an email to Catherine Thomas to share in the Teacher Center's online Collegial Circle Archive. Thank you for being a part in the effort to improve teaching and learning for our students.

COLLEGIAL CIRCLE INFORMATION

Title of Circle: Enhancing Technology Curriculum w/ the Laser Engraver Standards Area: Technology

Facilitator: Scott Banister School(s): MHS

Beginning Date: 3/13/13 Ending Date: 5/8/13 # of Hours: 6

Participants (list): Scott Banister, Jed Williams, Peter Pratt, Matt Gostling, Mitch Cantwell, Todd Benz

Please attach copies of the following to this report:

- ✓ Collegial Circle Attendance Log (required for payment)
- ✓ Collegial Circle Meeting Log
- ✓ Log of Strategies Implemented
- ✓ Samples of implementation strategies or student work samples if applicable
- ✓ Collegial Circle Reflection Sheets (each member fills one out)

COLLEGIAL CIRCLE DESCRIPTION

(Type your answer in the grey box below the question. The size of the box will adjust to the length of your answer.)

What were the anticipated objectives of this Circle?

Identify ways that using the Laser Engraver can enhance the technology curriculum.
 Learn how to create necessary drawings, set up the Laser Engraver, and operate the machine safely.
 Identify which courses would most likely benefit from using the machine as a fabrication tool.
 Create activities that will accentuate the current objectives in each target course.
 Create an evaluation rubric template that includes the Technology Standards and PCSD Next Generation Skills

What grade level(s) and or subject area(s) would benefit from this Circle?

9-12 initially, but lower levels could benefit in the future as well.

FINAL REFLECTIONS

(Type your answer in the grey box below the question.)

Was the outcome/goal of this Collegial Circle met? Explain.

The outcomes exceeded our expectations and the amount of excitement that it created with the staff and students is incredible. All of the teachers have now been trained how to safely use the machine and are already sharing with the students. The activities, rubrics, instructions, and samples described below document the vast progress that was made.

How did the Collegial Circle assess whether the outcome was met?

After discussing the set up and operation, each teacher successfully designed and cut a part. Activities for CAD, DDP and Photo 1 were created and ready to use this year. A template activity rubric was created to use with each target course, which is aligned to the PCSD technology standards and "Next Generation Skills" Sample parts were cut to use as exemplars with students. A complete set of directions was created and posted to the shared drive for student use and expansion.

How did your work impact teaching/learning? Include student work samples, lesson plans, peer reviews, etc.

We identified many ways that the Laser Engraver can enhance teaching the design process in an exciting and engaging way. We already have two classes using it to create tangible prototypes of their designs which they will be able to take home. It has been exciting to see the volumes of students that want to use the machine, which has been running almost constantly since we introduced it to them.

They are so excited by the results that they don't even realize the extremely high level of design and problem solving they are doing. The initial activities, related documents, and two sample parts are included.

Comments/additional information to share.

This collegial circle was a fantastic opportunity to bring the department together and engage large numbers of students. We are continuing to research and learn about applications every day, and are ecstatic about the response that the students have shown already.