



# Laser Engraving



## Description

In this curriculum, students will explore the field of laser engraving. They will learn about the how to use a graphic design application in order to produce laser engraved items. This laser engraving curriculum can be used with many brands of laser engravers.

## Skills

- Create an engraving on a dog tag.
- Create designs in an industrial graphics application.
- Demonstrate the proper working procedure for a laser engraver.
- Create an engraving on a shower board.

## Knowledge

- Demonstrate an understanding of an industrial graphics computer application.
- Discuss and research price quotes.
- Explain how to draw perfect shapes.

## Objectives

- Draw and manipulate graphic artwork in an industrial graphic application.
- Learn how to calculate coordinates.
- Learn how to output data to a laser engraver.
- Learn and follow safety regulations when using a laser engraver.

## Activities

- Introduction
- Manipulating Shapes
- Text Tool Features
- Creating a Dog Tag I
- Creating a Dog Tag II
- Engraving a Pencil
- Engraving a Shower Board
- Engraving a Shower Board: Other Options
- Artistic Media Tool Features
- Post-Test and Wrap-Up
- Bonus Activities
- Challenge: Extruding
- Challenge: Blending and Applying Drop Shadows
- Challenge: Lens Special Effect
- Challenge: Importing and Resizing

## Standards

Math/Measure Problem Solving/Reading/STEM

## Module Includes:

DEPCO Student Activity Guide, Document CD, CorelDRAW Software, Dimensioned Pencil Holder, Shower Board 3.5 x 3.5 in. (24), Shower Board 4 x 4 in. (24), Shower Board 4.5 x 4.5 in. (24), Shower Board 5 x 5 in. (24), Soft Wooden Pencil (36), Metal Military-Shaped Dog Tag (48)

## Requirements

Computer and engraver are required and sold separately.