

# Modeling with SketchUp for 3D Printing

## SketchUp 2016

### Chapter 1: Introduction

Don't Have a Printer?

Various Ways to Print

ABS vs. PLA

Print Platforms, Adhesion, and Rafts

Heated vs. Unheated

Raft vs. Raftless

Adhesion Methods

Live and Learn: Important Things to Keep in Mind

Converting SketchUp Files to STL Format2

SketchUp STL Extension

3D Warehouse and Materialise

Other Useful STL Tools

### Chapter 2: Existing Models

Print-Ready Models



## Personalized Phone Case



## Chapter 3: Simple Models from Scratch

### Flat Name Plate



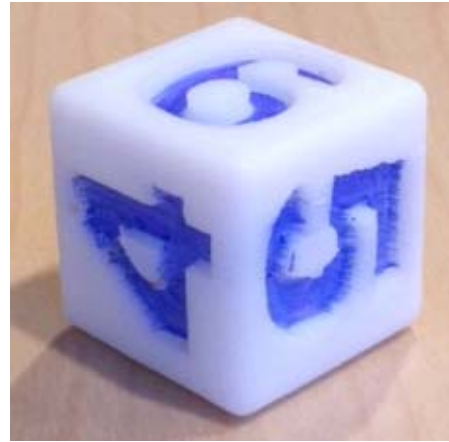
### Vertical Name Plate



**Pencil Holder**



**Dice**

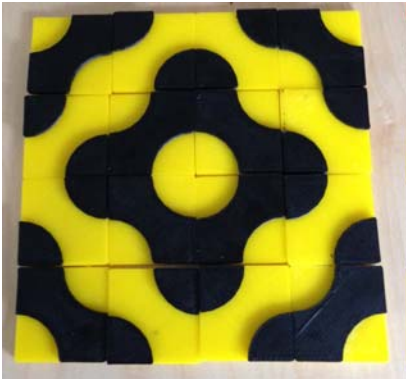


**Logo Keychain**



# Chapter 4: Tiles and Puzzles

## Truchet Tiles



## Escher Rectangles





## Escher Triangles



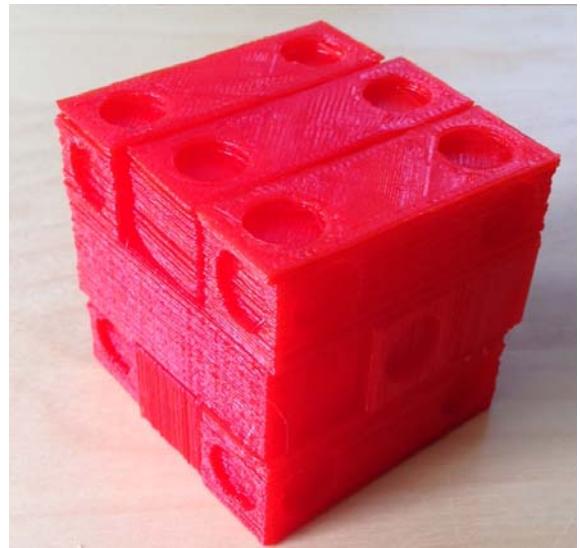
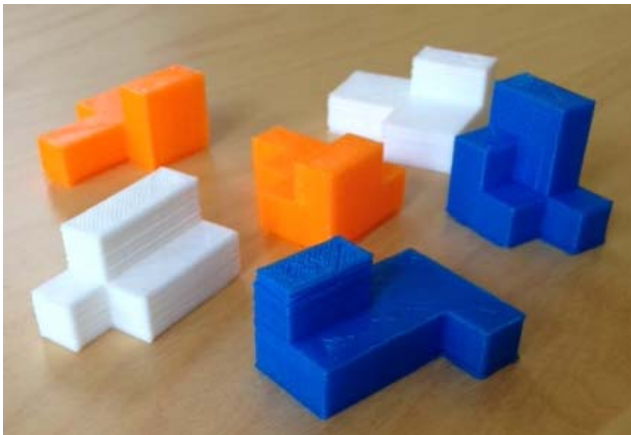
## Shapes Puzzles



### Fat Rhombs, Skinny Rhombs



### Cube Puzzles





# Chapter 5: Interesting and Interactive Models

Stand-up Animals



Custom House



Lego Bunk Beds



## USA States Puzzle

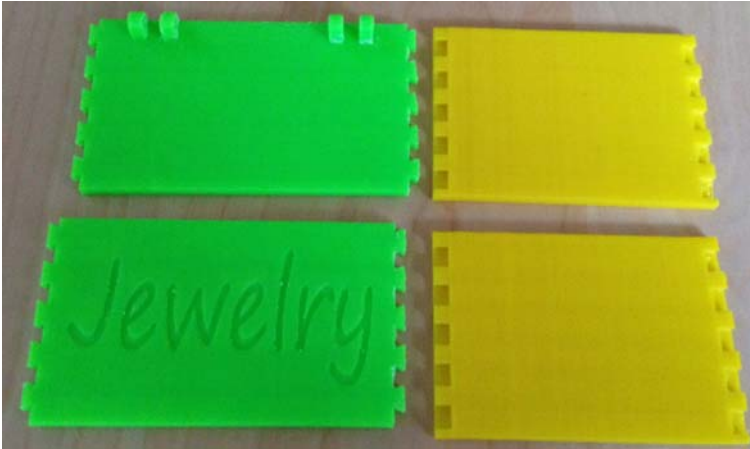


## Round Containers





## Dovetail Joinery Box



## DNA

