

# MAKE YOUR OWN

# 3D Print Keychain

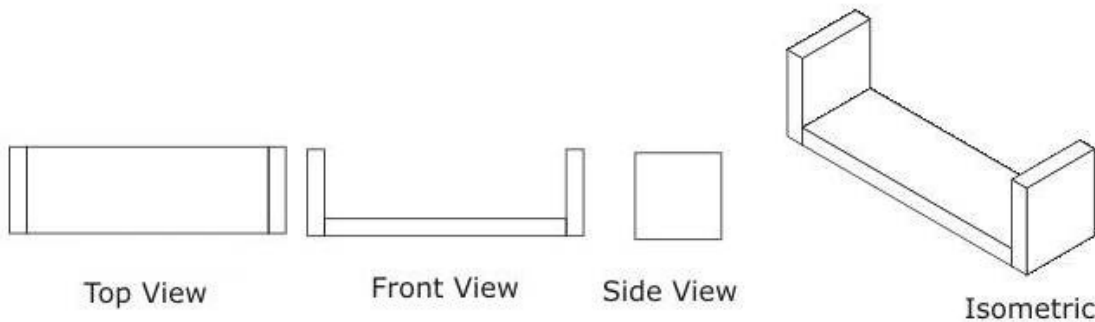


## Orthographic Sheet

## What is an orthographic drawing?

Orthographic drawings, or projections, are pictures that show a 3D object in two-dimensional or "flat" views. These show the top, sides, and bottom of an object when you are looking at them directly. Think of blueprints for a house or a vehicle-- they work the same way, to stay accurate from start to finish.

**Isometric drawings** are similar to orthographics, but show three-dimensions for an object instead of two and appear at an angle. Orthographic drawings help you get an accurate scale (or size) of an object, while isometric drawings help you get an understanding of what the object actually looks like.



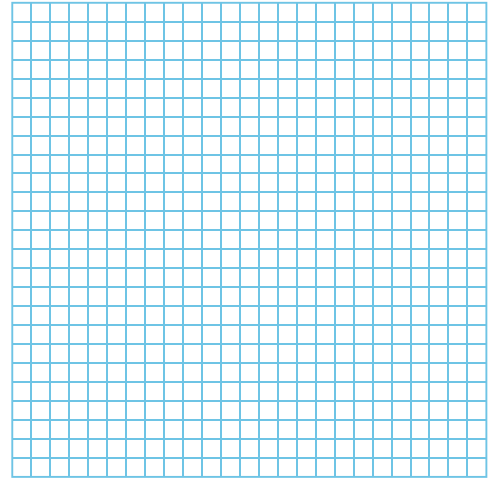
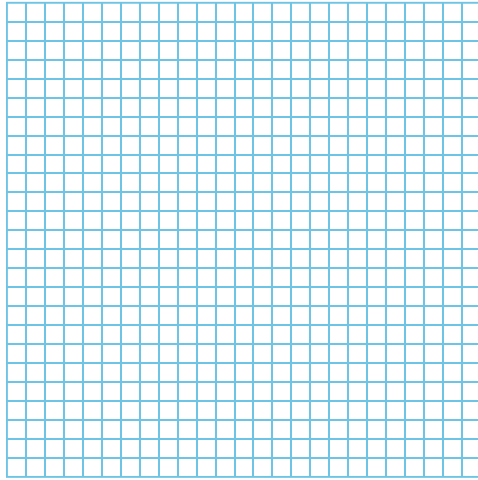
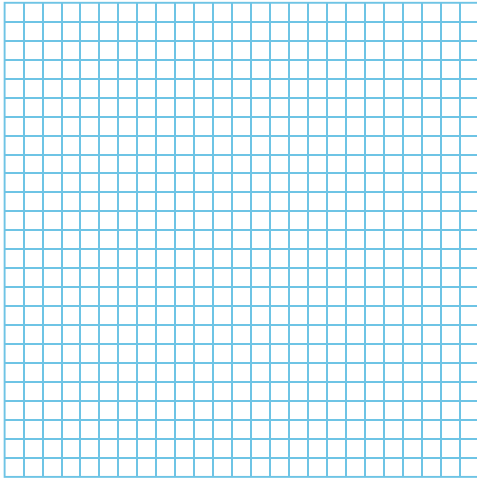
Use the space below to sketch your keychain design isometrically.



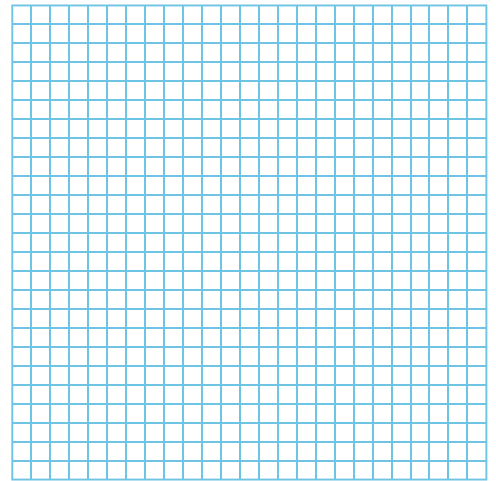
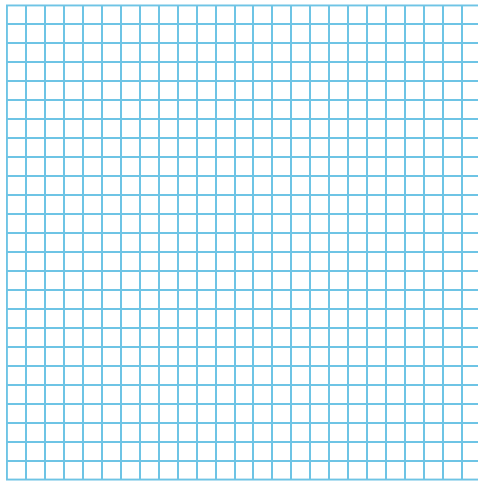
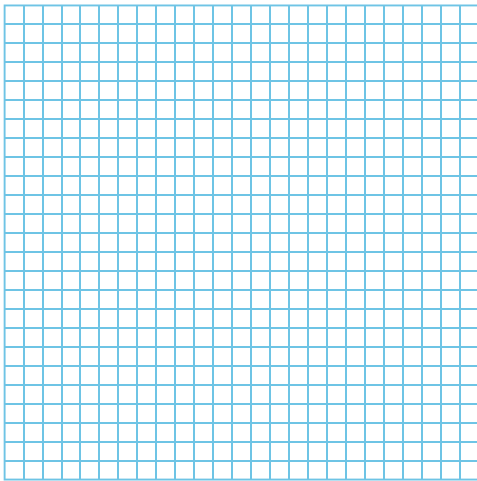
Use the graph squares below to draw each orthographic view of your keychain. Each square is the maximum size for your print. Extra squares are provided if you want to sketch more than one design.

Try to line up your sketches in each square so you can use them as reference when you are creating your model in Tinkercad.

## Top View



## Side Views



## Front/Back Views

