

TinkerCAD Quick-Start Guide

A pocket reference for the moves you will use most. Keep it handy while you work.

Action	How to Do It
Place a shape	Drag it from the right-hand Shapes panel onto the workplane.
Resize	Drag the white corner handles. For exact sizes, type dimensions in the boxes that appear (use mm).
Move up / down	Drag the small black cone arrow above a shape, or type a value in the height box.
Rotate	Click the shape, then drag the curved rotation arrows that appear around it.
Make a hole	Select a shape and click Hole in the inspector. Group it with a solid shape (Ctrl+G) to cut out a hole.
Group / Ungroup	Select multiple shapes → Ctrl+G to combine into one. Ctrl+Shift+G to separate.
Align	Select shapes → use the Align tool to center or edge-align them.
Camera / View	Use the view cube (top-right corner) to orbit; press the Home icon to reset to default view.
Save / Export	TinkerCAD autosaves to your account. Use Export → .STL to print, or take a screenshot for your pitch.

Design Tips for Your Custom Part:

- Build small first — start with the basic shape, then add detail.
- Measure twice: note real-world dimensions in mm before you model.
- Use the Hole tool to create slots, notches, or cutouts for tabs.
- Test fit: if 3D printing, add 0.5 mm tolerance to slots and holes.