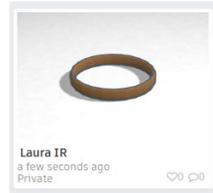


Initial Ring Part 3

Adding the hanger

1. Login to Tinkercad and go to your initial ring design.

www.tinkercad.com

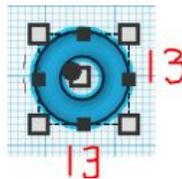


Tinker this

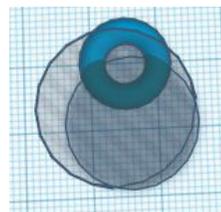
2. Pull the torus shape onto the workplane. Scroll down under Basic Shapes to find the torus.



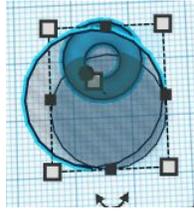
3. Size it to 13mm for the length and width. Keep the height at 5mm. Click on the shape, then click on one of the white boxes. In both number boxes type in 13.



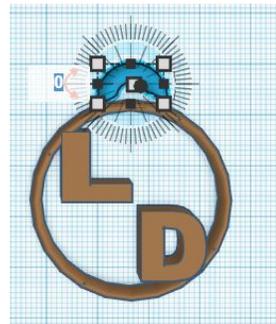
4. Drag out a cylinder hole and place it halfway over the torus shape. The cylinder hole will be at the top of the Basic Shapes section.



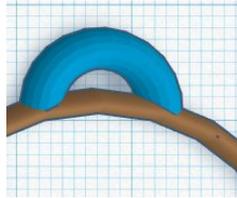
5. **Group the torus and cylinder hole.** *Click on the workplane and drag a box around the ring and your letters. Click the grouping button. The torus should be cut in half.*



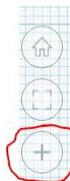
6. **Drag the rest of the torus shape to the top of the ring.** *You may need to rotate it sideways.*



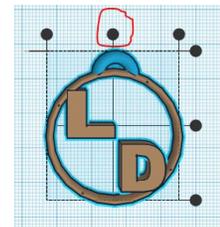
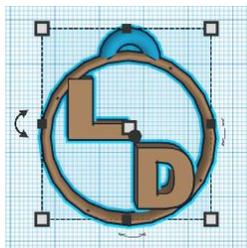
7. **Drag the torus to meet the ring.** *The shapes should overlap.*



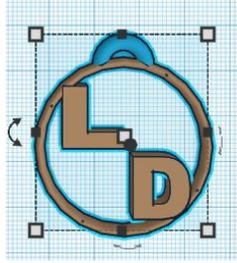
8. **Make sure that the torus is touching the ring.** *To check this Zoom in by pressing the plus button. Then zoom back out by clicking the minus button.*



9. **Align the torus with the ring.** *Click on the workplane and drag a box around the ring and the torus. Click the align button then click the top, middle black circle.*



10. Group your design. Click on the workplane and drag a box around the ring and the torus. Click the grouping button.



Awesome work! Your design is complete!

If you are in the classroom have your work checked by a classmate or your teacher.
If you are learning from home your teacher will check your work.