

Ball in a frame – primate version

This feeder is designed to promote investigatory behavior. As well as increasing feeding time.

This enrichment device has been successfully implemented with: Capuchins, macaques

Items needed:

X1 1500mm x 280mm x 10mm HDPE	X6 50mm coach screw
X4 1500mm timber (44 x 44)	X1 210mm boomer ball
X2 1588mm timber (44 x 44)	X2 Staple plate
X2 320mm timber (44 x 44)	Hammer
X2 340mm timber (44 x 44)	Clamps
X2 155mm timber (44 x 44)	Tape measure
X36 70mm coach screws	Pencil
X16 100mm coach screws	Drill with bits
	Saw
	Sandpaper

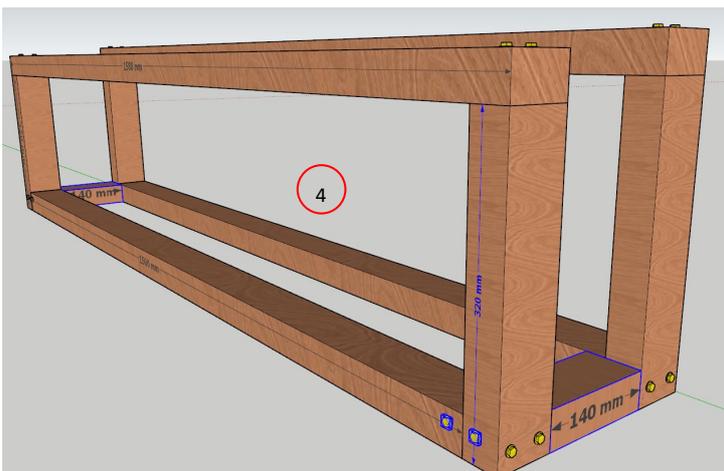
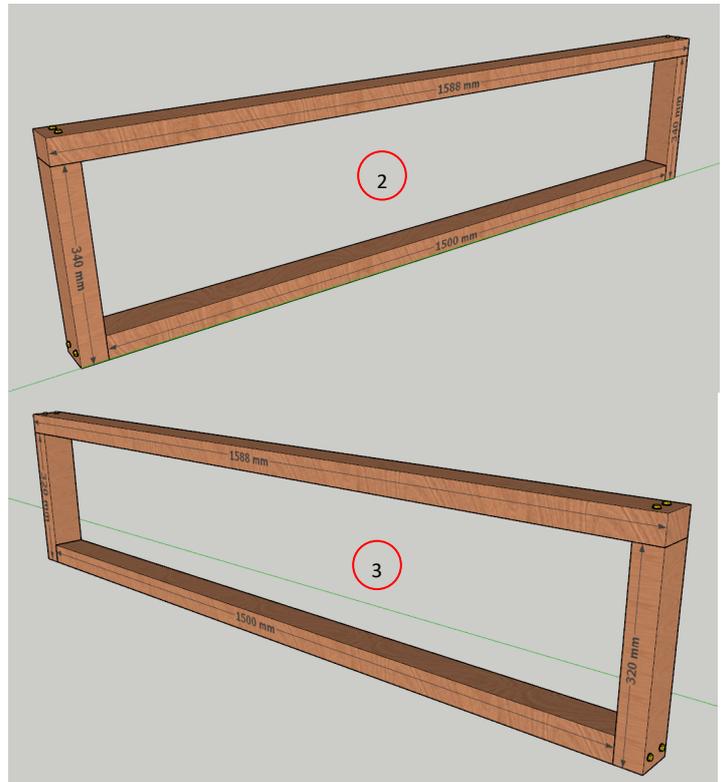
Safety concerns:

- The primate must not be able to pull the ball out between the timber, so gaps must be kept to a minimum, and good strong timber used.
- Item must be thoroughly checked after each use to make sure there is no damage or spits in the timber.
- **This device should be implemented as part of a goal-focused enrichment program. Individual animal characteristics should be fully considered before trialing.**



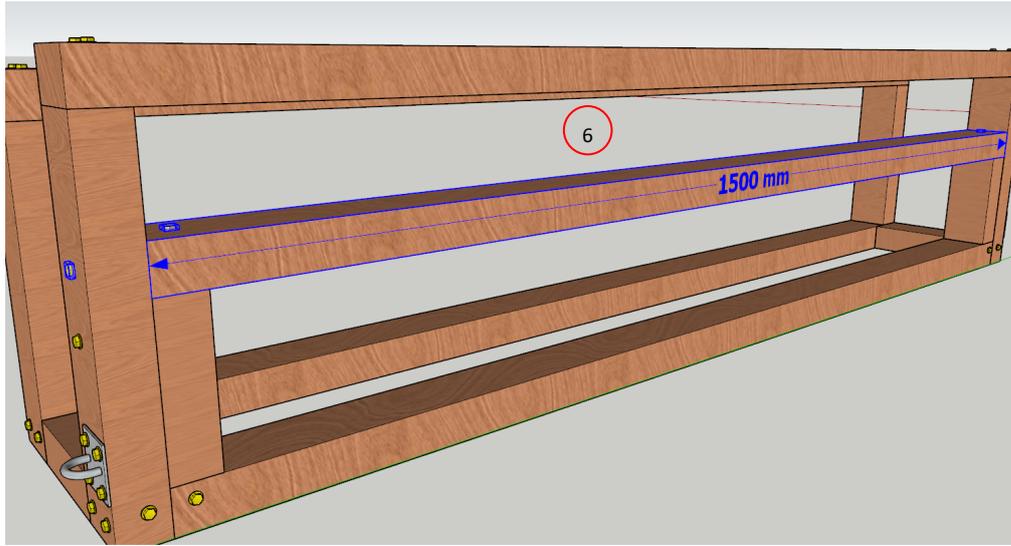
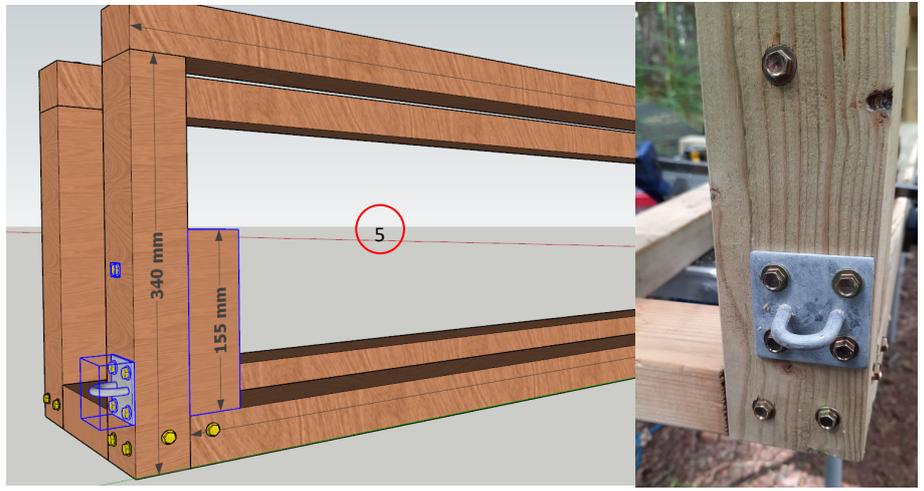
Directions:

1. Cut all lengths of timber with neat straight ends, and sand the cut ends along with any rough bits.
2. Join together four lengths of timber, the 340mm x 2, 1588mm timber and the 1500mm timber as shown in the diagram to the right. Use 70mm coach screws, with two screws in each joint. Use pilot holes if needed to make sure that the timber doesn't split.
3. Join together another four pieces of timber as show in diagram 3. This time use the 320mm x 2, the 1588mm and the 1500mm. Use 70mm coach screws with two screws in each joint. Use pilot holes if necessary.
4. Stand the two frames next to each other, and place

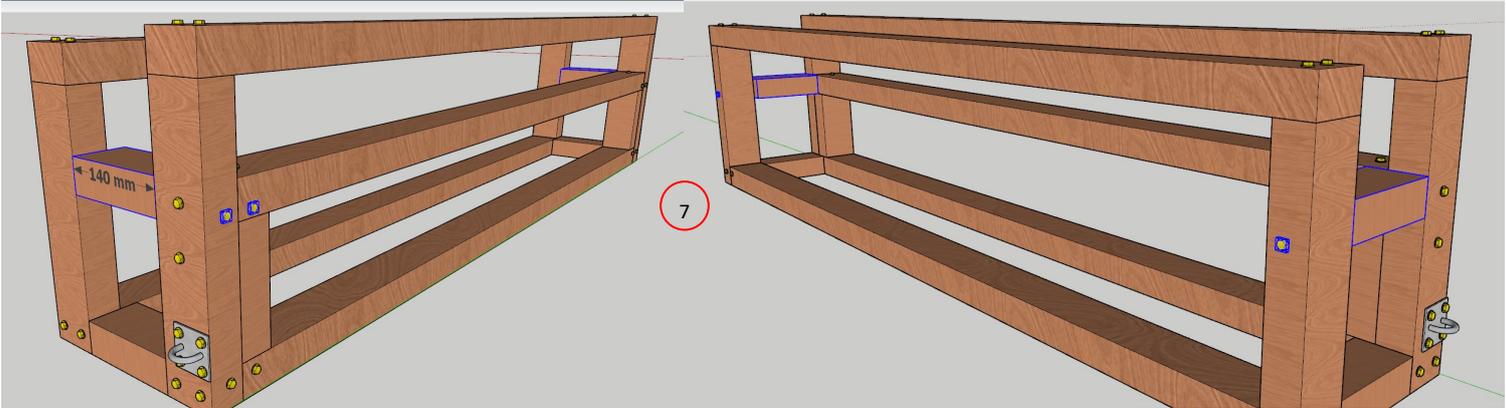


between then two lengths of 140mm timber. This should be flush with the end of the timber. At this point it is best to clamp the timber together, before putting in pilot holes through the side and securing with 100mm coach screws.

5. Next add in the 155mm timber. This is placed inside the larger frame, next to the 340mm timber. Use 1 x 70mm coach screw towards the top (see image 5) The lower half is held firmly in place using a staple plate and four 70mm coach screws. Please refer to the image for the correct way to place the staple plate, making sure that it is close to the edge of the timber as possible. You may need a pilot hole. Make sure the is repeated on both ends.

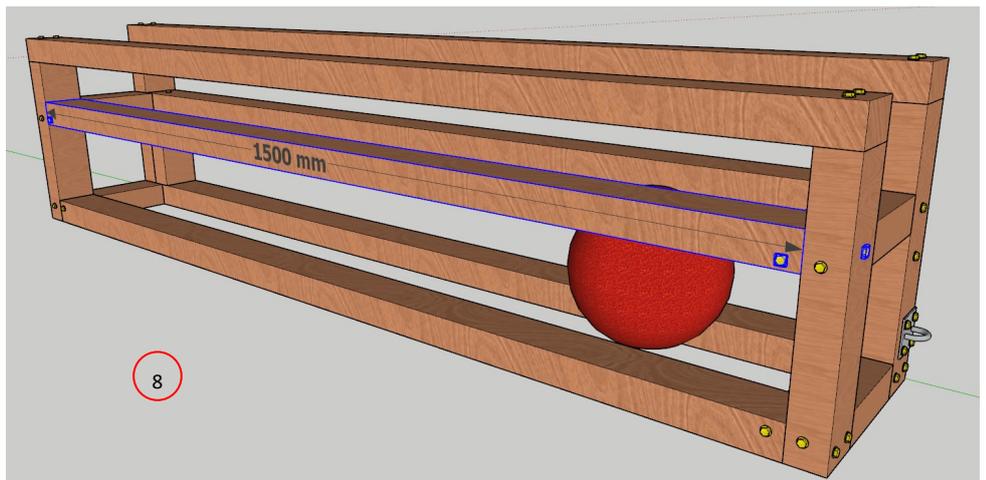


6. Next, add in one of the 1500mm lengths of timber, place on top of the 155mm timber that was put in in step 5. You may need a hammer to gently ease it into place, being careful not to split it. This is held in place by four 70mm coach screws (two at each end), please refer to image 6 for the location of these screws. You may need to drill a pilot hole before putting the screws in to prevent the timber splitting.

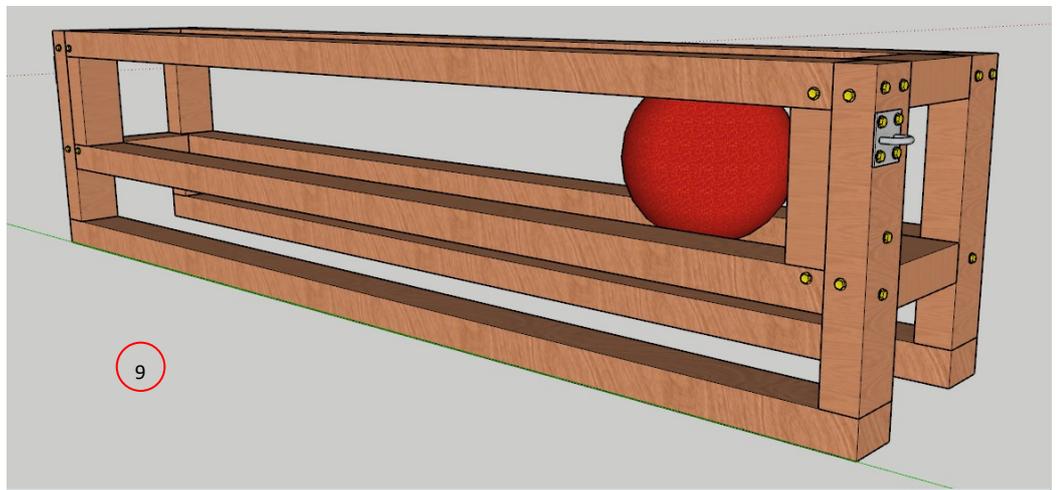


7. Place the remaining two 140mm lengths of timber in-between the frames from step 2 & 3. These must be on level with the piece of timber from step 6. You may need a hammer to ease them into place, being careful not to split the wood, and use a clamp to hold in place. Drill pilot holes before inserting the 100mm coach screws, being careful not to hit the other screws going through the timber in this location.

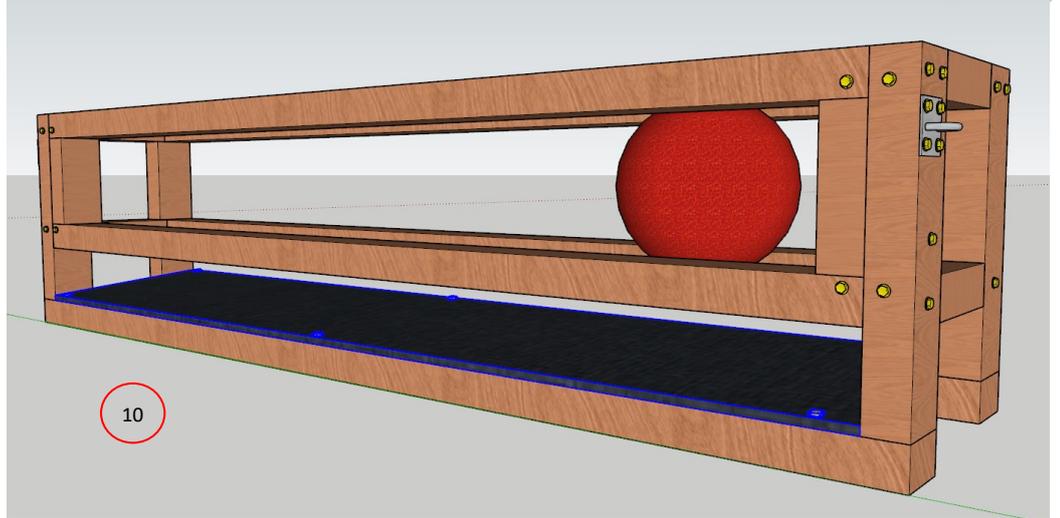
8. Use the final piece of 1500mm timber to fill in the final gap. BUT, make sure to put the ball in first before placing the timber. Finally, use a drill to make four pilot holes (two at each end) and secure with 100mm coach screws into the side, and 70mm coach screws into the end.



9. Turn the whole device 180 so that it is up the correct way. At this stage it will sit at a bit of an angle due to the difference in the height of the legs.



10. Place the HDPE in the bottom. It will sit on top of the lower arms. Before securing, make sure that the edges are flush with the edges of the frame. Drill 6 pilot holes through the HDPE into the frame and secure using 50mm coach screws. Because there is only a small gap to drill, these screws may have to sit at a slight angle, but as long as the HDPE is secured, this isn't a problem. The HDPE is at an angle to make sure that any falling food goes towards the enclosure, and not away.



11. Finally, attach a snap hook or D-Shackle to the two staple plates on the sides of the device, this is used to attach the device to the enclosure.



For videos of this device, follow the links below.

<https://www.facebook.com/TeamBuildingWithBite/videos/2607311232921703/>

<https://www.facebook.com/TeamBuildingWithBite/videos/713394429429215/>

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