Seed Spinner V3. - Primates

This feeder is designed to slow down foraging and promote cognitive processing.

This enrichment device has been successfully implemented with: Vervet monkeys, macaques

Items needed:

- 25mm x 150mm rough sawn kick boards
- 50/60mm diameter bamboo
- 30/35mm diameter bamboo
- x1 M12 threaded rod
- x1 M12 nylon lock nut
- x1 M12 wingnut
- x10 M12 nuts
- x20 M12 washers
- x4 Staple plates
- x4 D-shackles
- 4 x 40mm wood screws
- 4 x 16mm wood screws
- x4 hinges
- x4 latches
- 75mm-86mm hole saw (depending on size of primate hands)
- Handsaw
- Drill with bits
- Measuring tape
- Pencil
- Sandpaper

Safety concerns:

- Ensure all wooden parts are thoroughly sanded.
- **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 two pieces of 50/60 diameter bamboo so that there is a node on either end, with a minimum of four nodes (so at least three complete compartments).
2. Cut the nodes off either end of each piece and reattach using a hinge and latch and 16mm screws (see Figure 1).
3. Drill a hole through the center of each bamboo piece for the threaded rod to pass through and drill 1-2 small holes on either end of the bamboo sides to allow food to fall out.
4. Measure the length of your bamboo pieces to determine the size of the box.
5. Measure and cut pieces of wood to size. You will need:
    - Front: x3 pieces equal to the length of the bamboo plus ~50mm.
    - Side: x2 pieces equal to the length of the bamboo plus ~200mm.
    - x5 pieces 450mm in length.


Figure 1

6. Assemble the frame of the feeder using the two side pieces and two 450mm pieces. Secure together using 40mm screws. Drill pilot holes before screwing pieces together to avoid splitting the wood.
7. Secure one of the 450mm boards to the back of the frame to create a backstop for the dropped food (see Figure 2).
8. Using the hole saw, drill two holes in one of the remaining 450mm pieces of wood. These will be the access holes for the animals to reach the dropped food.
9. Line up the three front pieces alongside each other with the 450mm piece with holes along the bottom. Lay another 450mm piece on the seam so that it overlaps all pieces and secure together with 40mm screws (see Figure 3).
10. Secure the front of the feeder to the frame using 40mm screws.
11. Drill a hole in the center of the front boards for the rod to pass through.
12. Attach the staple plates on the four front corners of the feeder using 16mm screws in the side piece and 40mm screws through the piece lined up with the front and top pieces for maximum hold. Attach the D-shackles to each staple plate.
13. Cut one piece of the 30/35mm bamboo with a single compartment to make the handle. Drill a hole through the center for the rod to pass through.
14. Attach the lock nut to one end of the rod. Thread the rod through the handle, two nuts with washers, the front of the feeder, several washers as spacers, a nut, one bamboo piece, a washer and nut, the second bamboo piece, and then secure with a washer and wingnut. Adjust all of the pieces as necessary, and increase the number of washers if required to improve movement.

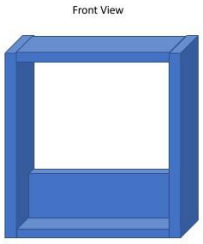

Figure 2

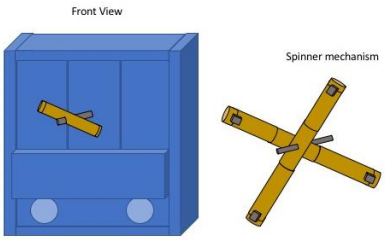

Figure 3

Video links of the device in action:
http://bit.ly/SeedSpinnerHDPEwalkthrough
http://bit.ly/SeedSpinnerHDPEBaboon
http://bit.ly/SeedSpinnerBottleVervet

We'd love to see your animals in action! Send pictures or videos of your animals using this device to Mark@teambuildingwithbite.co.uk