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Activity Idea

Spinning Target Game

Recommended for Ages 12 - 18

Let's get the boredom out of the way and create something fun with cardboard. Physics and gravity are involved, but don't worry it's all in good fun.

You will need:

- Pencil and paper
- Markers
- Ruler
- Paper
- Duct tape
- Glue (optional)
- Straws
- Skewers
- Cardboard
- Scissors
- Pennies

Instructions:

1. Decide how many spinning targets you want to make and gather your cardboard.
2. Disassemble a box and cut out a square (if you have a poster board use that instead).
3. Measure and draw your squares. Decide how many, based on the size of your cardboard.
4. Cut out smaller rectangles out of your large cardboard. Add duct tape around the openings for strength. You will need this frame, do not discard.
5. Trace circles onto the small cardboard rectangles. Cut out your circles, making sure they are smaller than the rectangle openings from the bigger cardboard square.
6. Taking your paper and markers, create a bullseye, star or whatever design you want and glue it to your small circles (you can also use duct tape instead of glue).
7. Cut your straws in half. You will be placing a skewer inside them later.
8. You can decorate your large frame before adhering your circles to it or after.
9. Place your cardboard circle design face down and use your tape to adhere your straws near the top. This will help the target stay straight when you add it to the larger frame.
10. Push a skewer inside each straw. Experiment with placement and see which position makes the target stay upright and spin. Make sure there's a minimum of half an inch space between your circle and rectangle opening so your circles will do a full spin.

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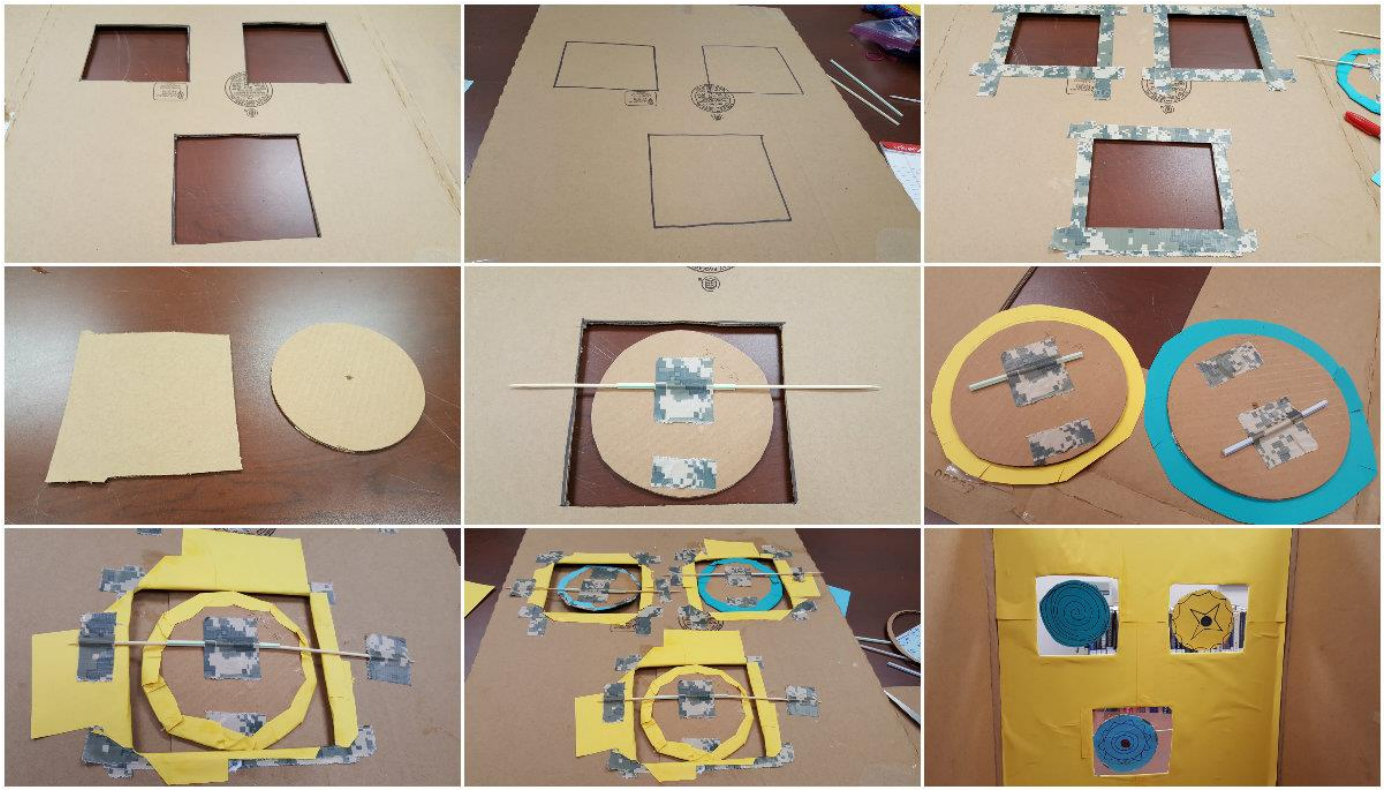
11. Tape a penny at the bottom of the circle. This is to add weight for counterbalance.
12. Using your tape, secure the skewer ends to the rectangle openings in the large square frame.
13. If you are not using a poster board, crease the sides of the large carboard frame so it can stand by itself.

You are all done! Grab a ping pong ball, light bean bags, or a nerf gun and try to make your targets spin.