Make Your Own *Mastermind Wheel*

Materials

1. A **printout** of the following pages. A gray-scale printout works just fine, but a color printout is easier to use if available.
   *Tip:* Print out the pages on thick paper or photo paper.

2. **Scissors** to cut out the disks.

3. A **fastener or rivet** to attach the disks and allow them to move.

How to Put the Materials Together

1. Cut the disks out along the dotted lines. (The dotted lines should not be visible after cutting.)

2. Poke a small hole through the central black dots on the disks, wide enough that the fastener can pass through.

3. Stack the disks as in the illustration. The disks for Case 1 have a 1 in the middle, while the disks for Case 2 have a 2 in the middle. Make sure that the printed sides always face outwards. Case 1 consists of 4 discs, Case 2 consists of 4 discs. You can glue the back of the two largest disks together.

4. After all the disks are stacked, fasten them together with the fastener. If you’re using a rivet, lightly use a hammer on the rivet so the rivet is loose enough that the disks can rotate.

5. Done! Now you can win Mastermind!
Material 1/5: The two inner wheels for Case 1 and the two inner wheels for Case 2.
Material 2/5: The middle wheel for Case 1.

After next response have the situation 'Think!' or "50/50?" or "You won!"

Board, deduce them and play them.

Exactly two test codes satisfy the board! Exactly two test codes satisfy the board!
Material 3/5: The middle wheel for Case 2.
Material 4/5: The outer wheel for Case 1.
Material 5/5: The outer wheel for Case 2.