Professor Cube (also known as 5x5x5 Rubik's Cube)

Phase 1: Solve the centres
1. Form 1×2 or 1×3 blocks of the same colour and move them to the correct face.

If in the process of doing this, you mess up a face that has already been solved, make sure to restore that face. For example:

2. The following algorithms can be used if you just wish to move one piece:

3. Repeat until the centres of all six faces are solved.

Phase 2: Pair up the edges
1. Look at the unmatched edge piece at the front-upper-centre position. Find the edge piece with the same colour and use face moves (not slice moves, so as not to disturb the centre cubies and the completed paired edges) to move it to the front-down-right position.

2. Now look at the edge piece at the front-upper-right position. Find the middle edge piece with the same colour and use face moves to move it to the front-right-middle position. Then apply the following algorithm to bring the two pairs of edge pieces next to each other:

Note: The last 3 turns can be left out.

3. Sometime it is impossible to pre-position 2 pairs of unmatched edges as required above. Then just position 2 edges pieces with the same colour as follows and bring them together:

4. The following situation may occur (1 edge piece is flipped):

5. Repeat until all 12 edge pairs have been matched.

Phase 3: Solve the cube
1. Solve the cube using any method for the 3x3x3 cube.