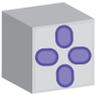# Basic Stitch Instructions

Cubic Right Angle Weave (CRAW)

Cubic Right Angle Weave (CRAW) is a variation of Right Angle Weave (RAW) and creates three-dimensional cube structures with a flexibility similar to RAW. Depending on your tension these can be self-supporting or may need an armature to help provide stability.

The basic stitch is still made up of sets of four beads but rather than being on a flat plane you are building up cubes with a count of four beads on each of the six faces of the cube.
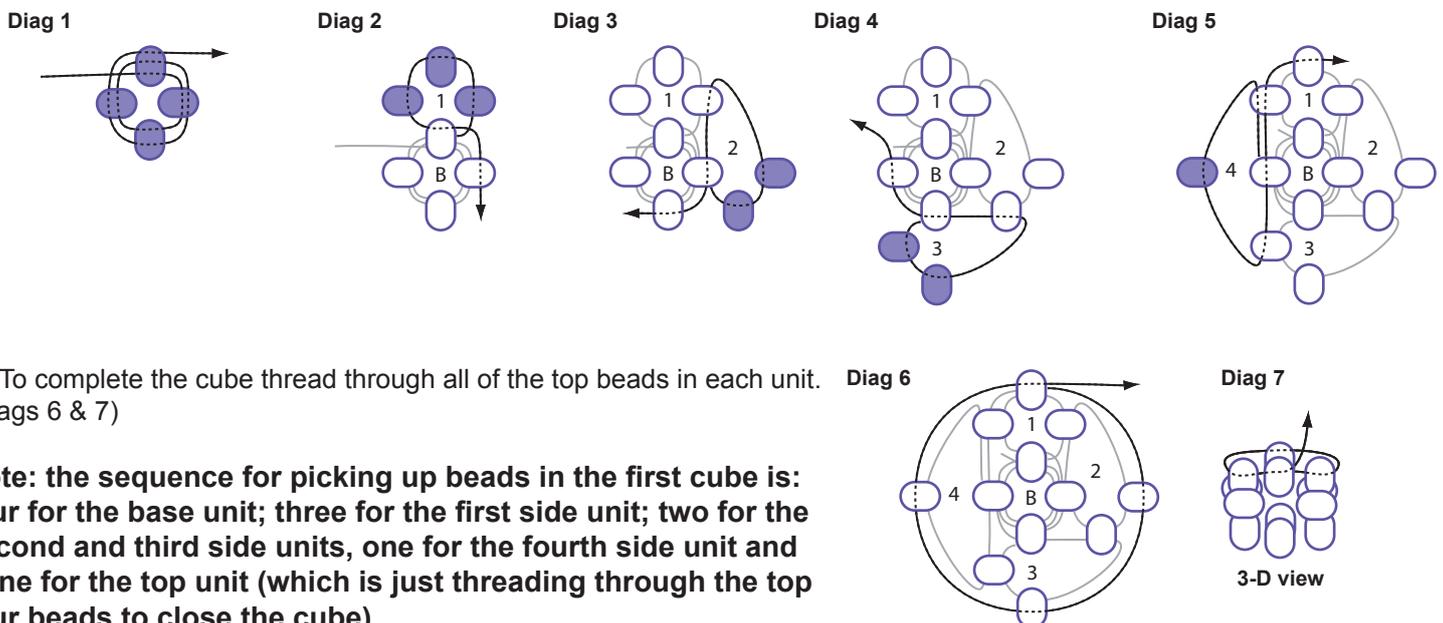
Mastering CRAW is not easy for some and even more difficult to describe and illustrate because of its three-dimensional character. Here we give basic instructions to help you master this stitch, but please be aware that there are a number of ways of approaching this stitch and this is just one of them.

Note: for the purposes of these instructions, each set of four beads is described as a unit, the base of each cube is a base ring, a set of six units is a cube and several cubes joined together are a row.

A single cube

1. Pick up four beads, thread through all four beads plus the first bead again to make a secure ring of four beads (this is the base ring of the cube). (Diag 1)

2. Pick up three beads, thread back through the bead your thread is exiting and through the next bead in the base ring. (Diag 2)

3. Pick up two beads, thread down through the side bead in the previous unit, through the bead your thread was exiting and through the next bead in the base ring. Repeat this step once more. (Diags 3 & 4)

4. To finish the last unit thread up through the side bead in the first side unit, pick up one bead and thread down through the side bead in the last unit. Thread back through the base bead, the side bead in the first side unit and the bead just picked up to exit at the top of the cube. (Diag 5)

Diag 1 **Diag 2** **Diag 3** **Diag 4** **Diag 5**

5. To complete the cube thread through all of the top beads in each unit. (Diags 6 & 7)

Note: the sequence for picking up beads in the first cube is: four for the base unit; three for the first side unit; two for the second and third side units, one for the fourth side unit and none for the top unit (which is just threading through the top four beads to close the cube).
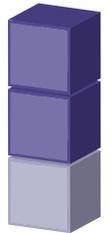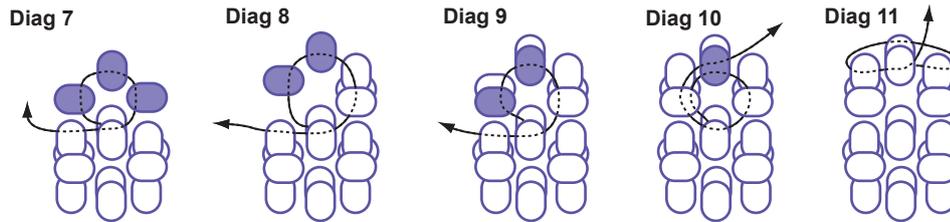
Diag 6 **Diag 7**

3-D view

A row of cubes

To add subsequent cubes use the four top beads of the last cube as the new base ring and repeat Steps 2 to 5 to complete another cube. (Diags 8, 9, 10 & 11)
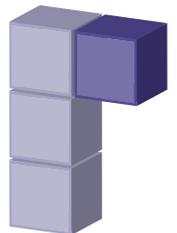
Diag 7　　　Diag 8　　　Diag 9　　　Diag 10　　　Diag 11

Note: the sequence for picking up beads for all subsequent cubes is (remember that the base beads are already in place): three for the first side unit, two for the second and third side units, one for the fourth side unit and none for the top unit.
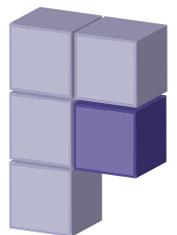
Adding a cube at right angles

Geometric frames of CRAW can be worked in this way by changing the direction of work.

In the first row of cubes the top four beads provided the new base ring for the next cube, when adding a cube at right angles the four beads on the side of the previous cube are used as the base ring for the next cube. Therefore with the thread exiting a side bead in the previous cube repeat Steps 2 to 5 to make the next cube at a right angle.

Adding a second row of CRAW

This is where CRAW becomes a little trickier to explain and illustrate but in essence the stitch is exactly the same as before. Having changed the direction of work by adding a cube at right angles, the next cube in the row needs to use the side beads in the first row as the base ring but will also share the beads of one unit in the cube just added. Therefore only three side units need to be added to make another complete cube.

Weave through the work to exit a side bead in the next first row cube and repeat Steps 3 to 5 to complete the next cube (remembering that the first side unit is already in place from the cube just added).

CRAW layers

Once the desired number of CRAW rows have been made these can be built on to create more layers of rows by using the surface units of four beads as the base rings for the new cubes.

In conclusion CRAW is based on just the five steps at the start of these instructions but the number of sides you need to add will depend on how many cubes are sitting next to the one you are working.