

Basic and Starter Shapes

Use these illustrations to build basic and "starter" shapes. Once you know how to build these basic shapes, you will be able to build anything your imagination allows! Remember, not all kits have every kind of connector. Check the description to the right to see which connectors are included in this kit.

Single Plane Matrix
Using 2-way connectors

Cube
Using 2-way and 90° connectors

Hub
Using 2-way connectors

Extra Strength
By doubling connectors you can strengthen any connection. (This shows two 4-way connectors.)

Double Plane Matrix
Using 3-way and 2-way connectors

Solid Matrix
Using 2-way and 4-way connectors

Building a Robot

Coins needed to build your robot:
(226) pennies (6) nickels (12) quarters

Construction connectors needed to build your robot:
(46) 2-way (96) 90° (144) 3-way (40) 4-way

STEP 1 Arms: A
8 2-way 4 90° 4 3-way 24 pennies 4 nickels

Right Arm A **Left Arm A**

STEP 2 Arms: B
6 2-way 16 90° 8 pennies

Right Arm B **Left Arm B**

STEP 3 Hands
4 2-way 2 quarters

Top View

STEP 4 Arms Assembly

Right Arm A **Left Arm A**

STEP 5a Head
6 90° 2 2-way 2 nickels 2 quarters

Head
8 90° 8 quarters

STEP 5c Head Assembly
5b

5a

STEP 5d Head Assembly
Connect using 4 2-way

STEP 5e Neck Assembly
6 2-way 4 pennies

Side View

STEP 6a Body
7 2-way 2 90° 9 2-way 2 3-way 22 pennies

STEP 6c Body
7 2-way 4 90° 9 3-way 22 pennies

STEP 6b Body
9 2-way 8 2-way 14 3-way 12 pennies

STEP 6d Body
9 2-way 12 90° 10 2-way 12 pennies

STEP 7 Body Assembly

6d
6c
6b
6a

STEP 8 Mid-Section

8a 6 2-way 2 3-way 20 pennies

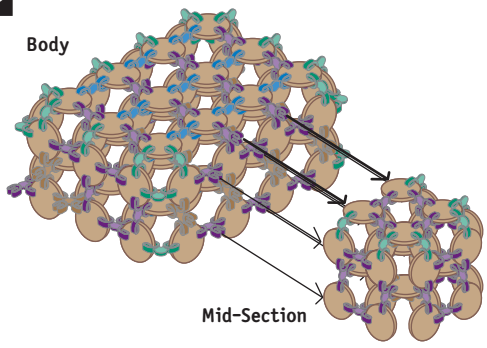
8b 6 2-way 4 3-way 4 pennies

8c 4 2-way 6 90° 4 pennies

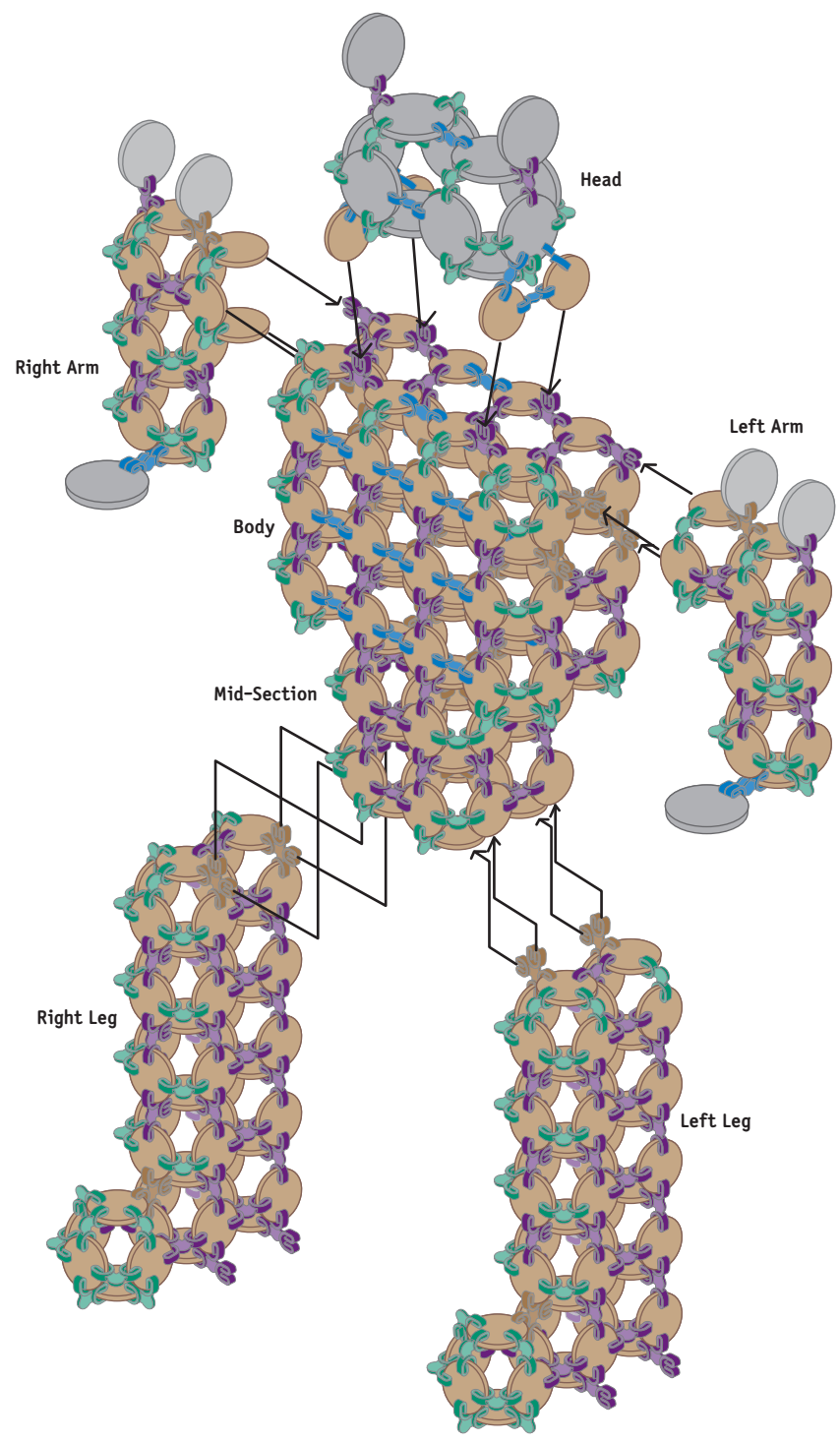
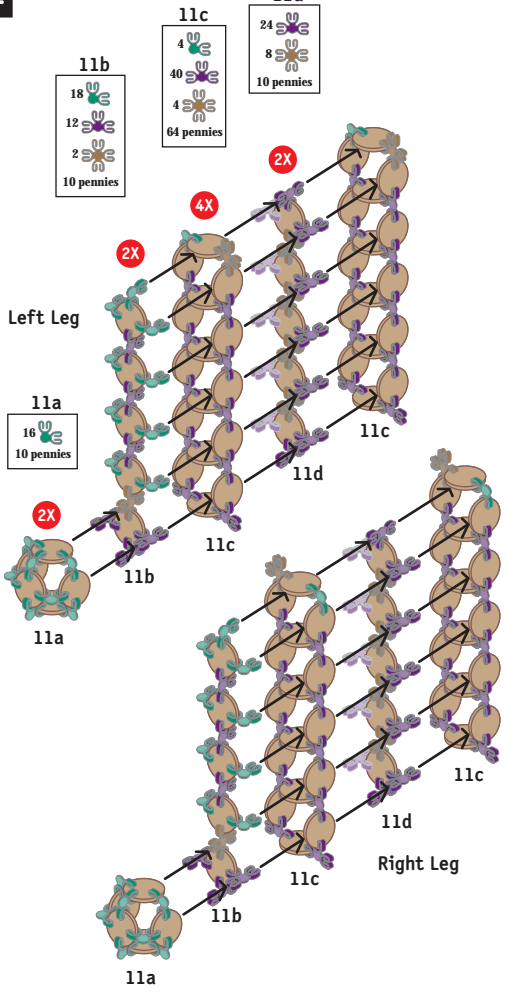
STEP 9 Mid-Section Assembly

8c
8a
8b
8a

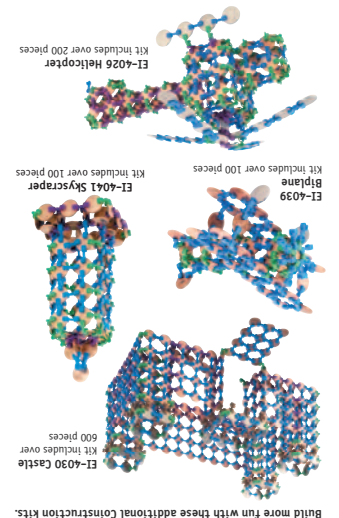
STEP 10 Body to Mid-Section Assembly



STEP 11 Legs



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Build more fun with these additional Coinstruction kits.



E1-4028 Ages 5+



Building a Robot



WARNING:
CHOKING HAZARD—Small parts.
Not for children under three (3) years.

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