

11509 Flowering Cactus

Adapted by Arturo and tested by Peter Durieux.

Delight young plant lovers with the LEGO® Botanicals Flowering Cactus (11509) building set for kids ages 9 and up. Packed with details, it lets girls and boys have fun creating cool cactus decor. Kids will feel their creativity flourish as they build 2 cacti models. The larger LEGO cactus is in full bloom and features a pink flower with a yellow center on top, while the smaller LEGO cactus features pink buds in various stages of growth. The cacti are an authentic shade of green and are both displayed in a pastel blue plant pot, making it easy for kids to show them off as bedroom or home decor once they've finished building. A great gift for girls and boys on birthdays and other special occasions, as well as a gift for nature lovers of all ages, this LEGO Botanicals building set is available in the LEGO Builder app, where kids can zoom and rotate their builds and track their progress.

The packaging has a very warm esthetic. The front of the box depicts the set, consisting of a light blue pot with reddish brown soil, one tall cactus on the back, and one short cactus on the front. It is on top of a dark pink background with a light aura coming from its center. To the left of the tall cactus, we have the name of the set in a font that tries to resemble cute handwriting. The word "FLOWERING" is in yellow. The word "CACTUS" is below it and is in lilac. To the right of the set's name there is a small light blue pot with a caricaturized cactus with eyes and a smile in it. The bottom left corner is decorated with the iconic red LEGO logo. The bottom has a pink background stripe composed of greebling made of LEGO pieces. On its left, it has the "BOTANICALS" series name, while on its right it has the set's suggested group (9+), set number (11509) and number of pieces (482). The right side of the box has the LEGO logo, as well as a warning that states that the set contains small parts, and it is therefore not recommended for children younger than 3 years old in other languages. It also has the name of the set in the handwritten font in different languages. The back of the box depicts three insets. Firstly, the left half shows a picture of the set on a shelf. There are some boxes blurred in the background, while to the right there is one real cactus. The top right half shows a picture of the model with its dimensions annotated: 11 cm (4 inches) wide and 16 cm (6.5 inches) tall. The bottom right half shows a picture of a real cactus on which this set was inspired. The top left corner has the iconic red LEGO logo. The left of the box depicts a similar picture of set, except that due to the space, it only fits about half of it. The top of the box shows the LEGO logo again, as well as a top view of the set and an inset with a dark pink flower piece in a 1:1 scale. The bottom side is a tidy strip that contains the barcode as well as a few technical bits: the place of manufacture, copyright and trademark notices.

The build consists of 482 pieces in total and is recommended for ages 9+. Once finished, you will have a pot with 2 cacti, no minifigures. The set consists of 4 numbered bags.

Welcome to text-based instructions from Bricks for the Blind! Before you start building, here are some terms we may be using:

- In Front of/Front: towards you.
- Behind/Back: away from you.
- Up: towards the ceiling.
- Down: towards the floor.
- Stud: the bump on a LEGO brick. Example: A 2x1 brick has two studs on it.
- Vertically: with the longest side going from front to back
- Horizontally: with the longest side going from left to right.
- Upright: pointing up towards the ceiling.
- Standing upright: The piece is perpendicular to the ground, like a wall.

- Lying flat: The piece is parallel to the ground, like a piece of toast which fell off the table.
- That one/ppp: previously placed piece.
- Plate: piece with studs.
- Tile: smooth piece without studs (unless otherwise specified)
- A jumper plate is a 1x2 plate with a single stud on top, or a 1x3 plate with only two studs on top.
- Open/hollow stud: a bump on a LEGO brick with a hole, which allows attaching bars. In the case of open studs, the hole goes all the way through. In the case of hollow studs, it does not.
- “Anti-stud” is a term for the portion of a LEGO piece which accepts studs, like the bottom of a plate or brick.
- Left/right wedge parts: these are parts that when placed in front of you and are pointing to the back, their wedge is on the left/right side of the part.
- Symmetrically: a mirror image. Example: If you place a 2x1 brick with technic connector on the front wall at the right, connector to the front, and then place another such piece symmetrically on the back wall, at the right, the technic connector of the second piece should point to the back, since it will be placed symmetrically.
- Centered-vertically: even amount of space in front of and behind piece
- Centered-horizontally: even amount of space left and right of piece.
- Row: studs lined up horizontally (left to right/side to side).
- Column: studs lined up upright or vertically (top to bottom/back to front).

Additionally, it is worth mentioning that besides the printed visual instructions that come with each kit, a PDF version for the set’s instructions is always available online at [<https://www.lego.com/en-nl/service/building-instructions/11509>]. This might help a sighted building partner that may want to follow along or low vision users that may benefit from viewing the instructions on a personal device where they can zoom in on content and use assistive technologies to enhance the visuals.

Sorting the pieces:

To begin a successful build, it helps to sort the pieces into groups, bags, or small containers. Have a friend or family member do this in advance following the instructions below. You will see that the pieces should be sorted according to the building steps in the kit. Doing this in advance makes locating the pieces for each step easier. See below on how to sort the pieces to correspond to the steps in this set. Number the containers using letters A-Z, numbers, or meaningful names. The parts will be sorted into one or a small number of steps in the instructions. Example: Steps 1-3 means collect all the parts used in steps 1, 2, and 3 and put them in one container.

This LEGO set comes with 4 numbered bags, 1 instruction booklet, and no minifigures. Sort the pieces into groups or piles as described below. Note that where there are multiple colors of the same brick in a step, the colors will be split into 2 groups to make telling the difference easier for the builder!

LEGO includes a few spare parts in case you lose something. Set these into their own group away from the rest, in case you need them later.

Book 1, bag 1 – Pot with soil

Group 1: steps 1 – 9

Group 2: steps 10 – 15

Group 3: steps 16 – 19

Group 4: steps 20 – 24

Group 5: steps 25 – 29

Group 6: steps 30 – 34

Group 7: steps 35 – 42

Group 8: steps 43 – 48

Group 9: steps 49 – 52

Book 1, bag 2 – Tall cactus

Group 10: step 53

Group 11: steps 54 – 55

Group 12: steps 56 – 66

Group 13: steps 67 – 70

Book 1, bag 3 – Short cactus

Group 14: steps 71 – 77

Group 15: steps 78 – 81

Group 16: steps 82 – 87

Group 17: steps 88 – 90

Book 1, bag 4 – Cacti's flowers

Group 18: steps 91 – 92

Group 19: steps 93 – 96

Group 20: steps 97 – 103

Alright, we are done with sorting. Let's get building!

Building Instructions

Book 1, bag 1:

Group 1 – Pot

1. Place 1 light blue 4x4 round corner plate in front of you, so that its curved edge faces to the back right.
2. Place 1 light blue 4x4 round corner brick with 3 studs on top of the ppp, so that its long curved edge faces to the back right and their curvatures are aligned.
3. Locate 1 white 3x3 corner plate. Rotate it so that its right angle faces to the back right. Place its back right corner stud on the 2nd column from the left of the 2nd row from the front of the pot build, so that it overhangs to the left by 1 column and to the front by 1 row.
4. Find 2 light blue 2x4 plates. Take the first one and rotate it vertically. Place its 2nd row from the front of the rightmost column under the left overhang of the ppp. Then, take the second one and rotate it horizontally. Place its 2nd column from the left of the back row under the front overhang of the 3x3 corner plate.
5. Grab 1 black 4x4 plate with 2x2 open center. Place its back right corner stud on the 4th column from the right of the 3rd row from the front, so that it overhangs to the left by 1 column and to the front by 1 row.

6. Locate 2 light blue 4x4 round corner plates. Take the first one and rotate it so that its curved edge faces to the front right. Place its back left corner stud under the front right corner of the ppp. Then, take the second one and repeat symmetrically to the back left.

7. Find 2 light blue 2x4 plates. Place the first one horizontally in front of the ppp, so that its rightmost column is centered vertically under the leftmost column of the 4x4 plate with 2x2 open center. Place the second one vertically so that its back row is centered horizontally under the front row of the 4x4 plate with 2x2 open center.

8. Grab 1 light blue 4x4 round corner plate. Rotate it so that it so that its curved edge faces to the front left. Place its back right corner stud under the front left corner of the 4x4 plate with 2x2 open center. This piece completes the 10x10 semi-round base of the pot.

9. Locate 3 white 3x3 corner plates. Take the first one and rotate it so that its right angle faces to the back left. Place its back left corner stud on top of the 3rd column from the left of the 3rd row from the back, so that it surrounds the back left corner of 4x4 plate with 2x2 open center. Then, place the next one symmetrically in front of the ppp. Place the last one symmetrically to the right. This should result in a white 6x6 perimeter surrounding the black 4x4 plate with 2x2 open center.

Group 2 – Pot (continued)

10. Find 2 red 1x2 sloped tiles. Place the first one horizontally on the 2nd row from the front, so that it is centered horizontally and it slopes to the back. Take the second one and repeat symmetrically on the back.

11. Grab 2 lime 1x2 plate with stud and slope tile. Place the first one vertically on the 2nd column from the left, so that it is centered vertically and it slopes to the back. Then, place the second one vertically on the 2nd column from the right, so that it is centered vertically and it slopes to the front. Place 2 reddish brown 1x1 round plates on top of the ppps.

12. Place 1 bright light blue 1x2 brick horizontally on the back row, so that it is centered horizontally, behind the 1x2 sloped tile. Place 1 light blue 4x4 round corner brick with 3 studs to the left of the ppp, so that its long curved edge faces to the back left. Locate 2 bright light blue 1x2 bricks. Place the first one vertically in front of the ppp. Take the second one and repeat symmetrically on the right.

13. Locate 2 yellow 2x2 plates. Place the first one on the 3rd and 4th rows from the back, so that it is centered horizontally. Then, place the second one symmetrically on the front. Find 2 black 2x6 plates. Rotate the first one vertically. Place its 2 front rows to the left of the ppp. Place the second one symmetrically on the right.

14. Find 2 red 1x6 plates. Place the first one horizontally on the 3rd row from the front, so that it is centered horizontally. Take the second one and repeat symmetrically on the back. Place 1 white 4x4 plate between both ppps, so that it is centered horizontally.

15. Place 1 bright light blue 1x2 brick horizontally on the front row, so that it is centered horizontally. Grab 2 light blue 4x4 round corner bricks with 3 studs. Place the first one to the left of the ppp, so that its long curved edge faces to the front left. Take the second one and repeat symmetrically on the right.

Group 3 – Pot (continued)

16. Grab 2 tan 2x4 bricks. Place the first one vertically on top of the 2 left columns of the 4x4 white plate at the center, so that it is centered vertically. Take the second one and repeat symmetrically to the right.

17. Locate 4 dark bluish gray 1x2 bricks. Rotate the first one horizontally. Place its leftmost column in front of the rightmost column of the ppp. Take the 2nd one and repeat symmetrically on the left. Then, take the remaining 2 and repeat symmetrically on the back.

18. Place 1 bright light blue 1x2 brick horizontally on the back row, so that it is centered horizontally. Find 2 light blue 4x4 round corner bricks with 3 studs. Place the first one to the left of the ppp, so that its long curved edge faces to the back left. Take the second one and repeat symmetrically on the right. Grab 1 bright light blue 1x2 brick and 2 light blue 4x4 round corner bricks with 3 studs and repeat symmetrically on the front.

Locate 2 bright light blue 1x2 bricks. Place the first one vertically on the leftmost column, so that it is centered vertically. Take the second one and repeat symmetrically on the right.

19.1 Let's make 2 identical sub-builds, beginning with the first one. Place 1 white 2x2 round brick with pin hole in front of you, so that its pin hole faces to the front and back. Place 1 dark bluish gray 2x2 round plate with axle hole on top of the ppp.

19.2 Find 1 red 2x4 plate with holes. Rotate it horizontally. Place its 2 leftmost columns on top of the ppp, so that it overhangs to the right by 2 columns.

19.3 Place 1 dark bluish gray 2x2 round plate with axle hole on top of the 2 leftmost columns of the ppp. Place 1 tan 2x2 round plate with axle hole on top of the ppp.

19.4 Place 1 black 2x2 round tile with hole on top of the ppp.

19.5 The first sub-build is done. Place its 2 overhanging columns on top of the 2 front rows of the 2x4 brick located in the left center of the pot build.

19.6 Build the second sub-build. Rotate it 180 degrees in the horizontal plane, so that its overhanging columns are to the left. Place its 2 overhanging columns on top of the 2 back rows of the 2x4 brick located in the right center of the pot build.

Group 4 – Pot (continued)

20. Place 1 bright light blue 2x6 plate horizontally to the right of the first sub-build, so that it overhangs to the right by 1 column. Place 1 bright light blue 2x2 plate to the left of the first sub-build, so that it overhangs to the left by 1 column.

21. Place 1 bright light blue 2x6 plate horizontally to the left of the second sub-build, so that it overhangs to the left by 1 column. Place 1 bright light blue 2x2 plate to the right of the second sub-build, so that it overhangs to the right by 1 column.

22. Locate 4 bright light blue 2x4 plates. Place the first 2 vertically, side by side, on the front row, so that together they are centered horizontally and overhang to the front by 1 row. Then, take the last 2 and repeat symmetrically to the back.

23.1 Let's make 4 identical sub-builds, beginning with the first one. Place 1 white 1x4 plate horizontally in front of you. Place 1 bright light blue 1x4 plate horizontally on top of the ppp, so that it is centered horizontally.

23.2 Find 1 bright light blue 1x4 tile with 1x4 slope tile. Rotate it so that it slopes to the front. Place its back row on top of the ppp.

23.3 The sub-build is complete. Place it horizontally on the 2 front rows, so that it is centered horizontally and it slopes to the front.

23.4 Build the second sub-build and place it symmetrically on the back. Build the third sub-build and place it vertically on the 2 leftmost columns of the pot build, so that it is centered vertically and it slopes to the left. Build the last sub-build and place it symmetrically on the right.

24.1 Let's make another 4 identical sub-builds, beginning with the first one. Place 1 bright light blue 4x4 round corner plate in front of you, so that its curved edge faces to the front right.

24.2 Place 1 bright light blue 4x4 round corner tile with slope on top of the ppp, so that its long curved edge faces to the front right. The piece should be aligned with the ppp.

24.3 The sub-build is complete. Place it on the front right corner of the pot build, so that it completes the front right curved edge of the pot.

24.4 Build the other 3 sub-builds and place them on the remaining corners. This should result in the pot's squared top edge with rounded corners.

Group 5 – Pot (continued)

25.1 Let's build 2 identical sub-builds that will represent some soil in the pot, beginning with the first one. Place 1 reddish brown 3x3 round corner plate in front of you, so that its curved edge faces to the front right.

25.2 Place 1 reddish brown 2x2 round tile on the back left corner of the ppp, so that it has no overhang. Locate 2 dark orange 1x1 round plates. Place the first one on the rightmost column of the back row of the sub-build. Then, place the second one on the leftmost column of the front row of the sub-build.

25.3 The sub-build is complete. Place its curved edge behind and to the left of the front right corner of the pot's edge.

25.4 Build a second sub-build by repeating steps 25.1 to 25.3. Rotate it so that its curved edge faces to the back left. Place its curved edge in front and to the right of the back left corner of the pot's edge.

26. Find 2 reddish brown 2x2 round corner plates. Take the first one and rotate it so that its curved edge faces to the back right. Place it in front and to the left of the back right corner of the pot's edge. Then, take the second one and repeat symmetrically on the front left corner.

27. Place 1 reddish brown 2x8 plate vertically so that it is centered horizontally.

28. Place 1 reddish brown 1x3 plate vertically on the 3rd to 5th rows from the back of the 3rd column from the right. Grab 2 reddish brown 1x2 plates. Place the first one vertically behind the ppp. Then, place the second one horizontally to the right of the front row of the 1x3 plate.

29. Place 1 reddish brown 1x3 plate vertically on the 3rd to 5th rows from the front of the 3rd column from the left. Grab 2 reddish brown 1x2 plates. Place the first one vertically in front of the ppp. Then, place the second one horizontally to the left of the back row of the 1x3 plate.

Group 6 – Pot (continued)

30. Let's build 2 identical small sub-builds, beginning with the first one. Place 1 reddish brown 3x3 round corner plate with 2x2 curved cutout in front of you, so that its long curved edge faces to the back right. Place 1 sand green 2x2 round corner tile on top of the ppp, so that its long curved edge faces to the back right and is aligned with that of the ppp. The first sub-build is complete. Place its short curved edge behind and to the right of the 2x2 round tile with hole located on the left side of the pot.

Build the second sub-build and rotate it so that its long curved edge faces to the front left. Place its short curved edge in front and to the left of the 2x2 round tile with hole located on the right side of the pot.

31. Locate 2 reddish brown 2x2 round tiles. Place the first one on the 2nd and 3rd columns from the right of the 2 back rows. Then, place the second one on the 2nd and 3rd columns from the left of the 2 front rows.

32. Place 1 reddish brown 2x2 round tile in the middle of the pot. Find 2 dark orange 1x1 round plates. Place the first one on the 3rd row from the back of the 4th column from the left. Then, place the second one on the 3rd row from the front of the 4th column from the right.

33. Find 2 sand green 1x1 tiles. Place the first one on the 4th row from the back of the leftmost column. Then, place the second one on the 4th row from the front of the rightmost column.

Grab 2 sand green 2x2 round corner tiles. Take the first one and rotate it so that its long curved edge faces to the front right. Place its rightmost column in front of the other 2x2 sand green 2x2 round corner tile on the left side of the pot. Then, take the second one and rotate it so that its long curved edge faces to the back left. Place its leftmost column behind the other 2x2 sand green 2x2 round corner tile on the right side of the pot.

34.1 Put the pot build to the side for now. Let's make a sub-build. Take 2 yellow 2x2 plates and place one on top of the other.

34.2 Locate 2 black 1x2 plates with 2x2 upright side studs. Take the first one and rotate it so that its side studs face to the left. Place its 1x2 plate on top of the leftmost column of the sub-build, so that its side studs face to the left. Then, take the second one and place it symmetrically to the right.

34.3 Place 1 yellow 2x2 plate on top of the sub-build.

34.4 Place 1 red 2x2 tile on top of the sub-build.

34.5 The sub-build is complete. Rotate it 90 degrees from right to left, so that the 2x2 red tile faces to the left. Bring back the pot build. Flip it upside down from front to back. Insert the sub-build into the 2x2 space in the middle.

Group 7 – Pot (continued)

35. Put the pot build to the side for now. Make sure to keep it in the same orientation. Let's begin building the pot's bottom. Place 1 light blue 4x4 round corner plate in front of you, so that its curved edge faces to the back right.

36. Place 1 light blue 5x5 round corner plate on top of the ppp, so that its long curved edge faces to the back right, their curvatures are aligned, and it overhangs to the left by 1 column and to the front by 1 row.

37. Find 2 bright light blue 2x4 plates. Rotate the first one vertically. Place its back right corner under the overhanging left column of the ppp. Then, rotate the second one vertically. Place its back right corner under the overhanging front row of the 5x5 round corner plate.

38. Locate 1 white 3x3 corner plate. Rotate it so that its right angle faces to the back right. Place its back right corner on the 3rd column from the right of the 4th row from the front of the pot bottom build.

39. Find 1 black 4x4 plate with 2x2 open center. Place its back right corner stud on the 4th column from the right of the 3rd row from the front, so that it overhangs to the left by 1 column and to the front by 1 row.

40. Grab 2 light blue 4x4 round corner plates. Take the first one and rotate it so that its curved edge faces to the front right. Place its back left corner under the front right corner of the ppp. Then, take the second one and repeat symmetrically to the back left.

41. Find 2 light blue 2x4 plates. Place the first one horizontally in front of the ppp, so that its rightmost column is centered vertically under the leftmost column of the 4x4 plate with 2x2 open center. Place the second one vertically so that its back row is centered horizontally under the front row of the 4x4 plate with 2x2 open center.

42. Grab 1 light blue 4x4 round corner plate. Rotate it so that its curved edge faces to the front left. Place its back right corner stud under the front left corner of the 4x4 plate with 2x2 open center.

Group 8 – Pot (continued)

43. Locate 3 white 3x3 corner plates. Take the first one and rotate it so that its right angle faces to the back left. Place its back left corner stud on top of the 3rd column from the left of the 3rd row from the back, so that it surrounds the back left corner of 4x4 plate with 2x2 open center. Then, place the next one symmetrically in front of the ppp. Place the last one symmetrically to the right. This should result in a white 6x6 perimeter surrounding the black 4x4 plate with 2x2 open center.

44. Find 3 light blue 5x5 round corner plates. Rotate the first one so that its long curved edge faces to the back left. Place it on top of the back left corner of the pot's bottom, so that their curvatures are aligned. Take the second one and place it symmetrically to the front of the ppp. Then, take the last one and place it symmetrically to the right of the ppp.

45. Grab 2 white 2x6 double round corner plates. Rotate the first one horizontally, so that its curved edge faces to the back. Place it horizontally on the 3rd and 4th rows from the back, so that it is centered horizontally. Take the second one and repeat symmetrically on the front. Locate 2 white 2x2 plates. Place the first one behind the 2 leftmost columns of the ppp. Then, place the second one symmetrically on the right. There should still be a 2x2 hole in the middle of the pot's bottom.

46. Place 2 white 2x4 plates vertically, one next to the other, so that together they are centered horizontally and vertically, covering the 2x2 hole.

47. Place 1 white 2x2 round tile on top of the pot's bottom, so that it is centered horizontally and vertically.

48. Find 4 bright light blue 1x2 bricks. Place the first one horizontally on the 2nd row from the back, so that it is centered horizontally. Take the second one and repeat symmetrically on the front. Place the third one vertically on the 2nd column from the left, so that it is centered vertically. Take the last one and repeat symmetrically on the right.

Group 9 – Pot (continued)

49. Grab 8 bright light blue 1x1 tiles with 1x1 sloped tiles. Rotate the first 2 horizontally, so that they slope to the right. Place their left column on top of the ppp. Take the next 2 and place them symmetrically on the left. Rotate the next 2 vertically, so that they slope to the back. Place their front row on top of the 1x2 brick on the back of the pot's bottom. Take the last 2 and repeat symmetrically on the front.

50. Locate 4 bright light blue 4x4 round corner tiles with slope. Rotate the first one so that its long curved edge faces to the front right. Place it to the right of the ppps, so that it completes the front right curved edge of the pot's bottom. Place the rest on the remaining corners. This should result in the pot's bottom edge with rounded corners.

51. The pot's bottom is complete. Bring back the pot build, which should be upside down. Insert the pot's 2x2 studs into the pot bottom's 2x2 hole in the middle.

52. Flip the pot build right-side up from front to back. There should be 1 black 2x2 round tile with hole on the left and on the front half of the pot, as well as 1 black 2x2 round tile with hole on the right and on the back half of the pot. The pot is complete!

Book 1, bag 2:

Group 10 – Tall cactus

53.1 Let's begin building the tall cactus, starting with its bottom core. Hold 1 yellow 5L axle vertically upright in front of you. Attach 1 white 2L technic axle connector to the top of the ppp.

53.2 Insert the axle of 1 blue 1L axle with pin into the top of the ppp, so that its pin is on the top.

53.3 Insert the bottom part of the 5L technic axle into 2 reddish brown technic axle connectors with 4 bars, so that the connectors go as far up as possible.

53.4 Locate 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the 2 front-facing bars into the 2 bottom holes of the 1x3 rounded plate. Then, take the second one and repeat similarly on the left side.

53.5 Find 2 dark tan 1x1 round plates with open stud. Attach the first one upright to the bottom stud of the ppp. Take the second one and repeat similarly on the front side.

53.6 Grab 2 light bluish gray 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the top front-facing bar into the bottom hole of the 1x3 rounded plate, so that it is above the ppp. Then, take the second one and repeat similarly on the left side.

53.7 Rotate the cactus build on the horizontal plane, so that the free bars are facing to the front and to the left. Locate 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the 2 front-facing bars into the 2 bottom holes of the 1x3 rounded plate. Then, take the second one and repeat similarly on the left side.

53.8 Find 2 dark tan 1x1 round plates with open stud. Attach the first one upright to the bottom stud of the ppp. Take the second one and repeat similarly on the front side.

53.9 Grab 2 light bluish gray 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the top front-facing bar into the bottom hole of the 1x3 rounded plate, so that it is above the ppp. Then, take the second one and repeat similarly on the left side.

53.10 The tall cactus's bottom core is complete. Bring back the pot and insert it into the black 2x2 round tile with hole on the right and on the back half of the pot. Make sure that it goes in as far as possible. Put the pot to the side for now.

Group 11 – Tall cactus (continued)

54.1 Let's make 2 identical builds corresponding to the first 2 leaves of the tall cactus, beginning with the first one. Place 1 sand green 1x10 plate vertically in front of you.

54.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and repeat symmetrically to the back.

54.3 Place 1 sand green 1x2 rounded plate with open studs vertically in front of the ppp. Then, place 2 dark green 1x1 round plates with open studs in front of the ppp, one in front of the other.

54.4 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

54.5 Place 3 sand green 1x1 double slope tiles on the 3rd, 5th, and 7th rows from the front, so that they slope to the left and right. Then, place 3 dark tan 1x1 round plates with open studs on the 3rd, 5th, and 7th rows from the back.

54.6 Grab 3 tan bars with 3 stems and insert each of them into the ppps.

54.7 The first leaf of the cactus is complete. Rotate it upright from back to front, so that its antistuds face to the back. Bring back the pot build. Attach the leaf's 4 bottom rows to the 4 front-facing side studs of the tall cactus's bottom core from the previous step.

54.8 Build a second identical leaf by repeating steps 54.1 to 54.6. Attach it symmetrically to the back of the tall cactus's bottom core. Put the pot build to the side for now.

55.1 Let's make another 2 identical builds corresponding to the next 2 leaves of the tall cactus. Place 1 sand green 1x10 plate vertically in front of you.

55.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and repeat symmetrically to the back.

55.3 Place 1 sand green 1x2 rounded plate with open studs vertically in front of the ppp. Then, place 2 dark green 1x1 round plates with open studs in front of the ppp, one in front of the other.

55.4 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

55.5 Place 3 sand green 1x1 double slope tiles on the 3rd, 5th, and 7th rows from the front, so that they slope to the left and right. Then, place 3 dark tan 1x1 round plates with open studs on the 3rd, 5th, and 7th rows from the back.

55.6 Grab 3 tan bars with 3 stems and insert each of them into the ppps.

55.7 The leaf of the cactus is complete. Rotate it upright from back to front. Then, rotate it 90 degrees counterclockwise, so that its antistuds face to the left. Bring back the pot build. Attach the leaf's 4 bottom rows to the 4 right-facing side studs of the tall cactus's bottom core.

55.8 Build another identical leaf by repeating steps 55.1 to 55.6. Attach it symmetrically to the left of the tall cactus's bottom core. Put the pot build to the side for now.

Group 12 – Tall cactus (continued)

56. Let's continue by building the tall cactus's top core. Place 1 yellow 2L technic round pin connector vertically upright in front of you. Insert the pin of 1 blue 1L axle with pin into the top of the ppp, so that its axle is on the top.

57. Attach 1 white 2L technic axle connector to the top of the ppp. Insert 1 red 4L technic axle into the top of the ppp.

58. Insert the ppp into 2 reddish brown technic axle connectors with 4 bars, so that the connectors go as far down as possible.

59. Locate 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the 2 front-facing bars into the 2 top holes of the 1x3 rounded plate. Then, take the second one and repeat similarly on the left side.

60. Find 2 dark tan 1x1 round plates with open stud. Attach the first one upright to the top stud of the ppp. Take the second one and repeat similarly on the front side.

61. Grab 2 light bluish gray 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the bottom front-facing bar into the top hole of the 1x3 rounded plate, so that it is below the ppp. Then, take the second one and repeat similarly on the left side.

62. Rotate the cactus build on the horizontal plane, so that the free bars are facing to the front and to the left. Locate 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the 2 front-facing bars into the 2 top holes of the 1x3 rounded plate. Then, take the second one and repeat similarly on the left side.

63. Find 2 dark tan 1x1 round plates with open stud. Attach the first one upright to the top stud of the ppp. Take the second one and repeat similarly on the front side.

64. Grab 2 light bluish gray 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Insert the bottom front-facing bar into the top hole of the 1x3 rounded plate, so that it is below the ppp. Then, take the second one and repeat similarly on the left side.

65. Locate 1 dark green 2x2 round plate with steering wheel. Attach it to the top of the build.

66. Flip the build upside down, so that the studs of the ppp face down. Put the tall cactus's top core build to the side for now. Make sure that it stays in the same orientation.

Group 13 – Tall cactus (continued)

67.1 Let's make 2 identical builds corresponding to 2 leaves of the tall cactus. Place 1 sand green 1x10 plate vertically in front of you.

67.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and repeat symmetrically to the back.

67.3 Place 1 sand green 1x2 rounded plate with open studs vertically in front of the ppp. Then, place 2 dark green 1x1 round plates with open studs in front of the ppp, one in front of the other.

67.4 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

67.5 Place 3 sand green 1x1 double slope tiles on the 3rd, 5th, and 7th rows from the front, so that they slope to the left and right. Then, place 3 dark tan 1x1 round plates with open studs on the 3rd, 5th, and 7th rows from the back.

67.6 Grab 3 tan bars with 3 stems and insert each of them into the ppps.

67.7 The leaf of the cactus is complete. Rotate it upright from back to front, so that its antistuds face to the back. Bring back the tall cactus's top core build. Attach the leaf's 4 bottom rows to the 4 front-facing side studs of the tall cactus's top core

68.8 Build another identical leaf by repeating steps 67.1 to 67.6. Attach it symmetrically to the back of the tall cactus's top core. Put the build to the side for now. Make sure to keep it in the same orientation.

68.1 Let's make another 2 identical builds corresponding to the last 2 leaves of the tall cactus. Place 1 sand green 1x10 plate vertically in front of you.

68.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and repeat symmetrically to the back.

68.3 Place 1 sand green 1x2 rounded plate with open studs vertically in front of the ppp. Then, place 2 dark green 1x1 round plates with open studs in front of the ppp, one in front of the other.

68.4 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

68.5 Place 3 sand green 1x1 double slope tiles on the 3rd, 5th, and 7th rows from the front, so that they slope to the left and right. Then, place 3 dark tan 1x1 round plates with open studs on the 3rd, 5th, and 7th rows from the back.

68.6 Grab 3 tan bars with 3 stems and insert each of them into the ppps.

68.7 The leaf of the cactus is complete. Rotate it upright from back to front. Then, rotate it 90 degrees counterclockwise, so that its antistuds face to the left. Bring back the tall cactus's top core build. Attach the leaf's 4 bottom rows to the 4 right-facing side studs of the tall cactus's top core.

68.8 Build another identical leaf by repeating steps 68.1 to 68.6. Attach it symmetrically to the left of the tall cactus's bottom core.

69. Flip the tall cactus's top core build right side up, so that its 2x2 round plate with steering wheel is on the top. Rotate it 45 degrees on the horizontal plane, so that the leaves are facing to the front right, front left, back left, and back right. Bring back the pot build. Attach the tall cactus's top core on top of its bottom counterpart. Make sure that the leaves slide into each other.

70. Place 1 sand green 2x2 round plate on top of the tall cactus.

Book 1, bag 3:

Group 14 – Short cactus

71. Insert 1 yellow 5L technic axle into the black 2x2 round tile with hole on the left and on the front half of the pot. Make sure that it goes in as far as possible. Put the pot build to the side. Make sure to keep it in the same orientation.

72. Let's begin building the short cactus, starting with its bottom core. Place 1 reddish brown technic axle connector with 4 bars in front of you. Locate 1 tan 1x2 rounded plate with open studs. Rotate it vertically upright, so that its antistuds face to the back. Insert the front-facing bar into the bottom hole of the rounded plate.

73. Locate 1 reddish brown technic axle connector with 4 bars. Insert one of its bars into the top hole and from the back of the ppp, so that both technic axle connectors are aligned.

74. Find 1 tan 1x2 rounded plate with open studs. Rotate it vertically upright, so that its antistuds face to the right. Attach it to the left-facing bars.

75. Grab 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the right. Attach it upright to the ppp, so that it overhangs to the top by 1 row. Then, take the second one and repeat similarly on the front side.

76. Rotate the build 180 degrees on the horizontal plane, so that the ppp is on the back. Locate 2 tan 1x2 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the right. Attach it to the left-facing bars. Then, take the second one and repeat similarly on the front side.

77. Find 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Attach it upright to the ppp, so that it overhangs to the top by 1 row. Then, take the second one and repeat similarly on the left side. Put the short cactus's bottom core build to the side for now. Make sure to keep it in the same orientation.

Group 15 – Short cactus (continued)

78.1 Let's make 2 identical builds corresponding to the first 2 leaves of the short cactus, beginning with the first one. Place 1 dark green 1x6 plate vertically in front of you.

78.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and place it vertically behind the ppp.

78.3 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

78.4 Place 1 sand green 1x1 double slope tile on the 3rd row from the back, so that it slopes to the left and right. Then, place 1 dark tan 1x1 round plate with open stud in front of the ppp.

78.5 Insert 1 tan bar with 3 stems into the ppp.

78.6 The first leaf of the cactus is complete. Rotate it upright from back to front, so that its antistuds face to the back. Bring back the short cactus's bottom core build. Attach the leaf's 3 bottom rows to the 3 front-facing side studs.

78.7 Build a second identical leaf by repeating steps 78.1 to 78.5. Attach it symmetrically to the back of the tall cactus's bottom core. Put the short cactus build to the side for now. Make sure to keep it in the same orientation.

79.1 Let's make another 2 identical builds corresponding to the next 2 leaves of the short cactus. Place 1 dark green 1x6 plate vertically in front of you.

79.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and place it vertically behind the ppp.

79.3 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

79.4 Place 1 sand green 1x1 double slope tile on the 3rd row from the back, so that it slopes to the left and right. Then, place 1 dark tan 1x1 round plate with open stud in front of the ppp.

79.5 Insert 1 tan bar with 3 stems into the ppp.

79.6 The leaf of the cactus is complete. Rotate it upright from back to front. Then, rotate it 90 degrees counterclockwise, so that its antistuds face to the left. Bring back the short cactus build. Attach the leaf's 3 bottom rows to the 3 right-facing side studs of the tall cactus's bottom core.

79.7 Build a second identical leaf by repeating steps 79.1 to 79.5. Attach it symmetrically to the left of the tall cactus's bottom core.

80. Bring back the pot build. Insert the vertically upright axle located to the left and on the front half of the pot into the short cactus build, from the bottom.

81. Attach 1 white 2L technic axle connector vertically upright to the axle at the center of the short cactus. Then, insert 1 light bluish gray 4L bar vertically upright into the ppp.

Group 16 – Short cactus (continued)

82. Let's build the short cactus's top core. Place 1 reddish brown technic axle connector with 4 bars in front of you. Locate 1 tan 1x2 rounded plate with open studs. Rotate it vertically upright, so that its antistuds face to the back. Insert the front-facing bar into the bottom hole of the rounded plate.

83. Locate 1 reddish brown technic axle connector with 4 bars. Insert one of its bars into the top hole and from the back of the ppp, so that both technic axle connectors are aligned.

84. Find 1 tan 1x2 rounded plate with open studs. Rotate it vertically upright, so that its antistuds face to the right. Attach it to the left-facing bars.

85. Grab 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the right. Attach it upright to the ppp, so that it overhangs to the top by 1 row. Then, take the second one and repeat similarly on the front side.

86. Rotate the build 180 degrees on the horizontal plane, so that the ppp is on the back. Locate 2 tan 1x2 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the right. Attach it to the left-facing bars. Then, take the second one and repeat similarly on the front side.

87. Find 2 black 1x3 rounded plates with open studs. Take the first one and rotate it vertically upright, so that its antistuds face to the back. Attach it upright to the ppp, so that it overhangs to the top by 1 row. Then, take the second one and repeat similarly on the left side. Put the short cactus's top core build to the side for now. Make sure to keep it in the same orientation.

Group 17 – Short cactus (continued)

88.1 Let's make 2 identical builds corresponding to 2 leaves of the short cactus, beginning with one of them. Place 1 dark green 1x6 plate vertically in front of you.

88.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and place it vertically behind the ppp.

88.3 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

88.4 Place 1 sand green 1x1 double slope tile on the 3rd row from the back, so that it slopes to the left and right. Then, place 1 dark tan 1x1 round plate with open stud in front of the ppp.

88.5 Insert 1 tan bar with 3 stems into the ppp.

88.6 The leaf of the cactus is complete. Rotate it upright from back to front, so that its antistuds face to the back. Bring back the short cactus's top core build. Attach the leaf's 3 bottom rows to the 3 front-facing side studs.

88.7 Build a second identical leaf by repeating steps 88.1 to 88.5. Attach it symmetrically to the back of the tall cactus's top core. Put the short cactus's top core build to the side for now. Make sure to keep it in the same orientation.

89.1 Let's make another 2 identical builds corresponding to the next 2 leaves of the short cactus. Place 1 dark green 1x6 plate vertically in front of you.

89.2 Locate 2 sand green 1x2 rounded plates with open studs. Place the first one vertically on the 2nd and 3rd rows from the front of the ppp. Take the second one and place it vertically behind the ppp.

89.3 Find 2 sand green 1x2 sloped curved tiles. Take the first one and rotate it vertically so that it slopes to the back. Place its back row on top of the back row of the leaf, so that it has no overhang. Take the second one and repeat symmetrically to the front.

89.4 Place 1 sand green 1x1 double slope tile on the 3rd row from the back, so that it slopes to the left and right. Then, place 1 dark tan 1x1 round plate with open stud in front of the ppp.

89.5 Insert 1 tan bar with 3 stems into the ppp.

89.6 The leaf of the cactus is complete. Rotate it upright from back to front. Then, rotate it 90 degrees counterclockwise, so that its antistuds face to the left. Bring back the short cactus's top core build. Attach the leaf's 3 bottom rows to the 3 right-facing side studs of the tall cactus's top core.

89.7 Build a second identical leaf by repeating steps 89.1 to 89.5. Attach it symmetrically to the left of the tall cactus's bottom core.

90. Flip the short cactus's top core build right side up. Rotate it 45 degrees on the horizontal plane, so that the leaves are facing to the front right, front left, back left, and back right. Bring back the pot build. Attach the short cactus's top core on top of its bottom counterpart. Make sure that the leaves slide into each other.

Book 1, bag 4:

Group 18 – Tall cactus flower

91. Place 1 yellow 2x2 round tile with open stud on top of the tall cactus.

92. Let's make the outer petals of the tall cactus. For this, we need to build 8 identical sub-builds. Let's start with the first one. Place 1 dark pink shield flat in front of you, so that its bars face to the back and upwards. Attach 1 magenta mechanical arm to the shield's vertical bar, so that its vertical clip faces to the front.

The sub-build is complete. Attach its horizontal clip on the back of the steering wheel located on top of the tall cactus. Build 3 more of these sub-builds and attach them on the right, front, and left of the steering wheel. Finally, build the remaining 4 sub-builds and attach them in between the already attached sub-builds. For now, leave all of them horizontal (i.e., do not angle them). Put the pot build to the side for now.

Group 19 – Tall cactus flower (continued)

93.1 Let's make the inner petals of the tall cactus. Place one magenta 2x2 round plate with bar frame in front of you. Then, place 1 yellow 2x2 round tile with open stud on top of the ppp.

93.2.1 We need to build 4 identical sub-builds. Let's start with the first one. Place 1 dark pink 1x1 round plate with open stud upside down in front of you. Insert the bar of 1 lavender 1L mechanical claw into the ppp.

93.2.2 Rotate the sub-build so that the mechanical claw faces to the back and its arms face up and down. Attach the bar of the mechanical claw to the clip of 1 magenta triangular road sign. Make sure that the mechanical claw faces towards a side of the triangle (and not towards a vertex).

93.2.3 The sub-build is complete. Flip it right side up, so that the triangular surface faces upwards and the mechanical claw faces to the back. Attach the mechanical claw on the front of the 2x2 round plate with bar frame.

93.2.4 Build 3 more identical sub-builds by repeating steps 93.2.1 to 93.2.2. Attach their mechanical claws on the left, back, and right of the 2x2 round plate with bar frame.

93.3 Place the inner petal build on top of the tall cactus. Make sure that the vertexes of the triangles pointing outwards are on top of the spaces between the outer petals.

94.1 Let's make a small sub-build for the tall cactus's top flower. Place 1 lime 1x1 round plate with open stud in front of you. Insert one bright green 3L bar vertically into it, so that it overhangs up by 2L.

94.2 Slide 1 yellow technic 14 tooth gear upside down (so that its teeth are facing down) into the ppp.

94.3 The small sub-build is complete. Flip it upside down, so that the overhanging vertical bar faces down and insert it into the tall cactus.

95. Angle the inner petals of the tall cactus inwards, at about 45 degrees.

96. Angle the outer petals of the tall cactus inwards, at about 45 degrees.

Group 20 – Short cactus flowers

97. Let's make the short cactus's flowers. Place 1 sand green small steering wheel in front of you. Then, place 1 sand green 5 point eggshell on top of the ppp, so that its points face upwards.

98. Place 1 sand green minifigure head on top of the ppp.

99. Place 1 dark pink flower with open stud and pin hole on top of the ppp. Place 1 magenta 1x1 round plate with flower edge on top of the ppp.

100.1 Let's make a small sub-build for a large flower. Place 1 sand green 5 point eggshell in front of you, so that its points face upwards. Place 1 sand green minifigure head on top of the ppp.

100.2 Place 1 dark pink flower with open stud and pin hole on top of the ppp. Place 1 magenta 1x1 round plate with flower edge on top of the ppp.

100.3 Attach 1 black 1x1 round plate with clip on bottom to the bottom of the flower sub-build.

100.4 The large flower is done. Attach its bottom clip on the right of the steering wheel of the short cactus's flowers build.

101.1 Let's make two identical sub-builds for 2 small flowers, beginning with the first one. Place 1 dark tan 1x1 round plate on top of 1 black 1x1 round plate with bottom clip.

101.2 Place 1 magenta 1x1 round plate with flower edge on top of the small flower.

101.3 The small flower is complete. Attach it on the front right of the steering wheel of the short cactus's flower build.

101.4 Build 1 more identical small flower by repeating steps 101.1 to 101.2. Attach it on the front left of the steering wheel of the short cactus's flower build.

102.1 Let's make 2 identical sub-builds for 2 medium flowers, beginning with the first one. Place 1 magenta 1x1 round plate with flower edge in front of you. Then, place 1 dark pink flower with open stud and pin hole on top of the ppp.

102.2 Place the sub-build on top of 1 sand green 5 point eggshell.

102.3 Attach 1 black 1x1 round plate with bottom clip to the bottom of the sub-build.

102.4 The medium flower is complete. Attach it on the front of the steering wheel of the short cactus's flower build.

102.5 Build 1 more identical medium flower by repeating steps 102.1 to 102.3. Attach it on the back left of the steering wheel of the short cactus's flower build.

103. Place the short cactus's flower build on top of the short cactus. The orientation is not really important.

We are done with the construction! Feel free to decorate any cozy space with this Flowering Cactus.

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