

## **43254 Ariel's Crystal Cavern**

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Exploration and play await kids aged 4+ as they learn to build with this LEGO® I Disney Princess Ariel's Crystal Cavern (43254) building toy. This buildable mermaid playset gift helps boost kids' problem-solving skills with creative play. Inside is a cavern with a spinning platform and slide, a whale vehicle, a shipwreck with a treasure chest, and a cauldron. It also includes Ursula and Ariel LEGO I Disney mini-doll figures and a Flounder LEGO I Disney fish figure.

Ariel building toy for kids – Appeal to girls and boys aged 4+ with this Ariel's Crystal Cavern building set that sparks creativity as kids build and play out their own mermaid princess tales.

Spinning platform – The crystal cavern has a spinning platform with a mirror backdrop, shelves, and a box for Ariel's shells and sea creatures, plus a crystal and a slide.

Construction playset – This buildable Disney toy includes a whale vehicle, a shipwreck with a hidden treasure chest, and a magic potion area with a table, cauldron, and potion bottles for Ursula.

Dimensions – The 141-piece building set for kids includes a crystal cavern that measures over 4.5 in. (11 cm) high, 7.5 in. (19 cm) wide, and 2.5 in. (7 cm) deep.

The front of the box shows Ariel in the Crystal Cavern raising a fork in her hand. To the right is a shipwreck that has a treasure chest inside! In the front, Flounder is zooming around while a whale car waits to be driven! In the back right on top of a cliff, Ursula is making potions in her large cauldron! Ariel has to be cautious because those potions are dangerous!

The back of the box shows all the accessories and builds that the set comes with. It comes with Ariel, Ursula, Flounder, a whale car, a shipwreck, a fork, a magnifying glass, a book, a chest, potion-making area, and the crystal caverns.

The top of the box shows Ariel using a magnifying glass to look inside of a chest while Flounder and Ursula are there.

The build is 141 pieces in total and is for ages 4+.

Bag 1 includes the pieces for Ariel and the Crystal Cavern.

Bag 2 includes the pieces for the shipwreck, whale, flounder, and a chest.

Bag 3 includes Ursula and her potion area.

Welcome to text-based instructions from Bricks for the Blind. Before you start building, here are some terms we'll 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.
- "Anti-stud" is a term for the portion of a LEGO piece which accepts studs, like the bottom of a plate or brick.
- 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).

For builders with low vision, or a sighted building partner may want to follow along with the printed visual instructions that come with each kit, or PDF versions are always online at LEGO.com for each set: (<https://www.lego.com/en-us/service/buildinginstructions/43254>) As low vision users 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 3 bags labeled 1, 2, and 3, 3 sets of instructions, and some loose pieces. 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.

The steps in this set correspond to page numbers.

Bag 1 - Ariel and Crystal Cavern

Group 1 - Pages 6-7.

Group 2 - Pages 8-37.

Group 3 - Pages 38-69.

Group 4 - Pages 70-89.

Bag 2 - Whale, Ship Wreck, Flounder, and Chest

Group 5 - Pages 4-23.

Group 6 - Pages 24-41.

Group 7 - Pages 42-79.

Bag 3 - Ursula and Potion-Making Area

Group 8 - Pages 4-9.

Group 9 - Pages 10-38.

Let's get to building!

Building Instructions (Bag 1, Book 1):

Group 1 - Ariel

6-7. Locate 1 light blue bottom with white scales and a pink mermaid tail, 1 brown torso printed with a dark pink top with scales and a pearl necklace with a clam charm, 1 brown head printed with dark brown eyes, nose, and lips, and 1 dark orange hair printed with a light blue clam. Assemble your minifigure and set her aside for now!

Group 2 - Crystal Cavern

8-9. Place 1 light blue 8x8 plate with 3 1x4 gaps and an overhanging 1x4 part in front of you so the overhang faces the right.

10-11. Place a 6x6 quarter plate underneath the overhang so it is aligned at the back and the curved end faces the front right.

12-13. Vertically place a light aqua 2x4 plate in the gap of the leftmost column so it overhangs to the left.

14-15. Place a 6x6 quarter plate underneath the overhang on the leftmost column so it is aligned at the back and the curved end faces the front left.

16-17. Horizontally place 2 light green 1x2 grill tiles in the back left and back right corners of the build. Then horizontally place 2 light green 1x2 grill tiles, 1 to the left and 1 to the right of the back 1x4 gap of the 8x8 plate.

18-19. Horizontally place a light pink 1x6 brick in front of the 2 middle grill tiles so it is centered horizontally.

20-21. Vertically place 2 light pink 1x2 bricks, 1 to the left and 1 to the right of the previous 1x6 brick.

22-23. Locate 2 transparent pink 2x4x5 rock formations with an indented inside. Horizontally place them to the left and right of the back left and back right grill tiles so the indented side faces the front.

24-25. Place 2 transparent light blue 2x2 jumper plates in front of the previously placed rock formation so they sit in the 1x2 gap of them.

26-27. Place 2 transparent 1x1 round bricks, 1 on each of the inside studs of the rock formations.

28-29. Horizontally place 2 transparent light blue 1x2 plates, 1 on top of each of the previous 1x1 round bricks so there is no overhang.

30-31. Vertically place 2 transparent pink 1x2x5 bricks on top of the 2 light purple 1x2 bricks that are to the left and right of the 1x6 brick that is in the back center.

32-33. Horizontally place 2 light purple 1x3 slope bricks on top of the previously placed bricks and 1x2 plates so they slope outwards. There should not be any overhang.

34-37. Locate 1 light blue glass pane with a rounded end printed with a mirror surrounded by blue pearls sitting on top of pink crystals and 1 light purple 1x6x5 frame. Insert the glass pane into the frame. Then horizontally place it on top of the 1x6 brick that is in the back center. Ask a sighted person to make sure the print is facing the front!

### Group 3 - Crystal Cavern

38-39. Locate 2 transparent blue 1x2 slope bricks. Horizontally place them on top of the leftmost and rightmost studs of the previously placed frame so they slope outwards.

40-41. Horizontally place 1 white 1x2 plate with a bar on the left 6x6 quarter plate so it sits to the left of the front row of the 2x4 plate. Make sure the bar faces the front.

42-43. Place a light aqua 2x2 sloped curved tile on top of the 1x2 plate with a bar so it slopes to the back. Make sure this tile does not overhang.

44. Place a green barholder with a clip in front of you so the clip faces the table and the barholder faces up.

45. Place a green seaweed with 4 stems into the barholder so the 4 stems face up.

46-47. Now connect the clip to the bar of the 1x2 plate that is in the front left so the seaweed is horizontal.

48-49. Vertically place a white 1x4x2 fence on the 2nd column from the left in front of the 1x2 grill tile.

50-51. Vertically place a yellow 1x4 brick on top of the fence so there is no overhang.

52-55. Locate 1 large yellow slide and 1 light blue 1x4 plate. Place the bottom of the slide on top of the 1x4 plate so there is no overhang. Now place the top of the slide on top of the yellow 1x4 brick so the slide sits on the left.

56. Place 1 pink 1x1 plate with 3 leaves on the front left corner of the middle 8x8 plate so the leaves face the front.

57. Place 1 white and grey 2x2 turntable plate on the middle 2x2 set of studs on the 8x8 plate. This plate is a 2x2 round plate that rotates in the middle of a 2x2 plate.

58-59. Place 1 yellowish-green 4x4 plant with 4 leaves in the center of the turntable plate.

60-61. Locate 1 dark tan 2x2 box, 1 yellow fish connected to a bar, and 1 yellow 1x1 starfish. Horizontally insert the bar of the fish into the leave that is in the front left corner of the 8x8 plate so it faces the right. Then place the starfish behind the leftmost stud of the front 1x4 gap. Then place the box on the front right corner of the 8x8 plate.

62-63. Place 1 yellow shell connected to a bar and 1 yellow seahorse connected to a bar inside the box! They should not connect to anything.

64. Place 1 purple crystal on the stud of the 2x2 jumper plate that is on the right and in front of the rock formation.

65. Place 1 yellow 3x3 octopus on the 2nd stud in front of the right column of the jumper plate that you placed the crystal on.

66-67. Stack together 2 transparent pink 2x2 round bricks, then place a clam shell connected to a 2x2 plate on top so the clamshell faces the front.

68-69. Place your part in front of the grill tile that is in the back right corner of the build so the clamshell faces the front.

#### Group 4 - Crystal Cavern

70-73. Stack together 2 transparent pink 2x2 round bricks, then place them on top of the 2x2 plate of the clamshell.

74-75. Horizontally place a white 1x1 slope with 1x1 tile on the back left stud of the 2x2 round brick so the 1x1 tile connects to the rock formation, and it slopes to the right.

76-77. Place 1 yellow fish connected to a bar, 1 yellow seastar, and 1 yellow clam in the white clamshell you previously placed. These should not connect to anything!

78. Place 1 green seaweed plant with 4 stems on the right side of the build on the stud to the left of the 1x1 slope-1x1 tile you placed so it is diagonal and the short stem points towards the front right corner of the build.

79. Place 1 yellow seahorse connected to a bar symmetrically on the left side so it faces the right.

80-82. Horizontally place a white 1x2 plate with 2x2 side studs in the center of the back row so the side studs face the front.

82-83. Horizontally place a light blue 1x4 sloped curved tile on top of the previously placed plate so it is centered.

84-85. Let's make a part! Locate 1 pink clamshell connected to a 2x2 plate, 1 transparent light blue 2x2 jumper plate, and 1 transparent pink diamond. Place the clamshell in front of you so the shell faces the back. Place the jumper plate on top of the 2x2 studs. Then place the diamond on the stud of the jumper plate.

86-87. Now place your build upright on the front-facing 2x2 side studs so the clamshell faces up.

88-89. Now locate Ariel, the minifigure you previously made! Place her on the yellowish-green 4x4 plate! You can raise her hand and rotate her to make her wave to the creatures of the sea!

Building Instructions (Bag 2, Book 2):

Group 5 - Flounder and Shipwreck

4-5. Locate 1 yellow fish with blue stripes, blue hair, blue tail, and black and white eyes! This is Flounder! Put him aside while we build the shipwreck!

6-7. Place a tan 6x6 quarter plate in front of you so the right angle is in the back right corner.

8. Place a transparent pink 1x1 round tile in the back left corner of the plate.

9. Horizontally place a light blue 2x4 plate in front of the tile so there is no overhang.

10-11. Vertically place a light brown 1x4 plate with inverted slopes on the rightmost column of the 2x4 plate so it is centered vertically on the 2x4 plate.

12-13. Horizontally place 2 brown 1x1 slopes-1x1 tiles on top of the middle 2 studs of the 1x4 plate with inverted slopes so the 1x1 slopes sit to the right.

14. Let's make a part! Horizontally place a light brown 4x6 inverted slope angled brick in front of you so the short end faces the left.

15. Horizontally place a brown 2x3 tile in the middle 2 rows of the 3 rightmost columns.

16-17. Vertically place a brown 2x2 plate with extended angled sides to the left of the 2x3 tile so the angled sides align with the 4x6 brick.

18-19. Now horizontally place your part to the left of the 2 brown 1x1 slope-1x1 tiles so the 2x2 plate with angled sides faces the left.

20-21. Horizontally place 2 brown 1x4 plates in front of and behind the 2x3 tile and 1x1 tile parts of the 1x1 slope-1x1 tiles.

22-23. Horizontally place 2 light brown 1x4x2 arch bricks on top of the previously placed 1x4 plates.

Group 6 - Shipwreck

24-25. Vertically place 1 brown 2x4 plate on top of the 2 leftmost studs of the 2 previously placed arch bricks.

26-27. Vertically place 1 brown 2x4 plate to the right of the previously placed plate on top of the arch bricks.

28-29. Horizontally place 1 gold 1x4 panel on the front row of the 2 vertically placed 2x4 plates so the wall faces the front.

30. Place a pink 1x1 plate with 3 leaves in the front right corner of the build so the leaves face the right.

31. Place 1 yellow clamshell to the left so there is a free stud in between this and the leaf plate. Make sure the back of the clam faces the back!

32-33. Vertically place 1 light green seaweed with 4 stems on the leaf plate so the short stem faces the back.

34. Let's make a flag! Place 1 brown bar with an antistud in front of you.

35. Horizontally place 1 yellow flag into the top of the bar so it faces the right and the thicker part of the connector is at the bottom.

36-37. On top of the 2 brown 2x4 plates, place your flag on the 2nd column from the left and 2nd row from the back so the flag overhangs to the right.

38. Locate 1 light purple 2x4 chest bottom and 1 light purple 2x4 chest top. Horizontally place the chest bottom in front of you so the side with a lower edge is facing the back. Horizontally attach the chest top to the clips on the back edge of the chest.

39. Place a black magnifying glass and silver fork inside the chest then close it!

40-41. Horizontally place the chest underneath the 2 2x4 plates in between the arch bricks so it opens to the front.

#### Group 7 - Whale

42-43. Place a light blue 4x4 plate in front of you.

44-45. Place 2 teal 2x2 inverted sloped curved plates on the leftmost column of the 4x4 plate so the slopes overhang to the left.

46-47. Place 1 yellow 2x2 plate to the right of the previously placed plates so it is centered vertically.

48-49. Place 1 yellow 2x2 jumper plate on top of the inverted sloped curved plates and the left column of the 2x2 plate.

50-51. Place 2 teal 1x2 sloped curved bricks, 1 in front of and 1 behind the 2x2 plate so they slope to the left.

52-53. Vertically place 1 yellow 1x2 brick to the right of the 2x2 jumper plate.

54-55. Vertically place 1 light blue 1x2 plate on top of the 1x2 brick.

56-57. Vertically place 1 teal 1x2 brick with 1 side stud to the right of the previous 1x2 plate so the side stud faces the right. Then place 2 teal 1x1 bricks with 1 side stud, 1 in front of and 1 behind the previously placed brick so the side studs face to the front and back.

58-59. Place 1 black 1x1 round tile printed with a white eye on each of the side studs of the 1x1 bricks.

60-61. Vertically place 1 teal 1x4 brick on the leftmost column of the build so it does not overhang.

62-63. Vertically place 1 teal 1x4 plate on top of the previous 1x4 brick.

64-65. Place 1 teal 2x2 sloped curved corner brick connected to a 1x1 plate on the front right corner so the 1x1 plate is in the back left. Then repeat symmetrically for the back right corner.

66-67. Flip your build upside down so it is horizontal and the corner bricks you just placed are on the left. Now vertically place a black 1x4 plate with 2 pins upside down on the rightmost column of the 4x4 plate so it is centered vertically. Then vertically place a light blue 1x2 plate upside down to the left of the 1x4 plate so it is centered vertically.

68-69. Vertically place a black 1x4 plate with 2 pins upside down to the left of the 1x2 plate so it is centered vertically.

70-71. Insert 4 pink 1x1 axle connectors, 1 to each of the pins on the build. These are the wheels of the whale!

72-73. Flip your build upright so it is horizontal and the eyes of the whale are on the right. Now place 1 teal 2x2 sloped curved tile connected to a 1x1 plate on the front left corner so the 1x1 plate part is in the back right. Then repeat symmetrically for the back left corner.

74-75. Vertically place 1 teal 1x2 jumper plate on top of the 2x2 sloped curved corner bricks that are on the right.

76-77. Place 1 light purple bar with 3 leaves on top of the 1x2 jumper plate.

78. You finished the whale, now you can put the shipwreck, whale, and Flounder all together in front of you!

Building Instructions (Bag 3, Book 3):

Group 8 - Ursula

4-5. Locate 1 purple dress, 1 dark tan torso printed with a purple dress shirt, 1 dark tan head printed with purple eyes and purple lips, and 1 white hair. Assemble your minifigure and put her in front of you!

6-9. Vertically place 1 brown book cover with 2 studs in front of you so the clips are on the left. Then vertically place 1 tan 1x2 tile printed with ingredients for potion making on the 2 studs. Ask a sighted person to make sure it is oriented correctly! Then vertically attach a book cover to the clips and close the book! Now put the book in Ursula's hand using the bar on the bottom cover!



## Group 9 - Potion Making Area

10-11. Place a light purple 8x8 plate with a rounded side in front of you so the rounded side faces the front.

12-13. Place a transparent light green 2x2 round brick in the back left and back right corners of the plate.

14-15. Repeat the previous step so you end up with 2 stacks of 2 round bricks.

16-17. Horizontally centered, place 1 teal 2x8 plate on the back 2 rows so it sits on top of the round bricks.

18-19. Horizontally place 1 transparent light blue 1x2 panel in the back left corner of the 2x8 plate so the wall faces the back. Then place 3 purple 2x2 jumper plates to the right so they sit on the 2x8 plate.

20-21. Horizontally place 1 transparent light blue 1x2 panel in front of the previous panel so the wall faces the front.

22-23. Place 1 transparent light yellow potion on the leftmost jumper plate. Place 1 yellow seashell connected to a bar on the middle jumper plate so the top end is on the left. Then place a yellow clamshell on the rightmost jumper plate so it faces the front.

24-25. Horizontally place 1 black 1x2 half-circle tile on the front row so it is centered and the rounded side faces the front. Then place a transparent light green 2x2 round brick behind it.

26-27. Vertically place a black 1x2 brick with a side stud to the left and to the right of the previous round brick so the side studs face outwards.

28-29. Horizontally place 1 purple 2x4 plate on top of the previously placed bricks so it does not overhang.

30-31. Vertically place 1 black curved plant stem with thorns upright on each of the side studs so the stem sits upwards.

32-33. Place 1 black 4x4 cauldron on the center of the 2x4 plate so the handles face the left and right.

34-35. Let's make a part! Place 1 transparent pink 2x2 dish in front of you. Place 1 transparent light purple 1x1 cone brick on top. Then horizontally place 1 transparent pink smoke swirl connected to a bar into the cone brick so the tip of the smoke sits on the left.

36-37. Now place your part into the cauldron to make it look like the cauldron is cooking up a potion!

38. Now you can put Ursula reading her potion book beside your potion-making area!

Thank you so much for building this set!

Visit [bricksfortheblind.org](http://bricksfortheblind.org) for more accessible instructions and follow us on [Facebook](#) and [Instagram](#) to be the first to know when new instructions are available!

We also love seeing your completed builds, so please tag our [Facebook](#) and [Instagram](#) accounts in any photos of your builds so we can share your accomplishments with our Bricks for the Blind community.

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At the end of the instruction booklets are advertisements for the following 2 LEGO Disney Theme kits:

43254 Ariel's Crystal Cavern

43235 Ariel's Music Stage