

21376 Tintin Moon Rocket

Set adapted by Alex Charbonneau and tested by Natalie Charbonneau.

Launch a nostalgic mission to recreate the Tintin® Moon Rocket with this collectible LEGO® Ideas model building kit (21367) for adults. Capture the red and white markings of the rocket ship, as seen in classic comic books *Destination Moon* and *Explorers on the Moon*. Display with 5 minifigures, all in space suits with helmets and oxygen tanks (Tintin® and Captain Haddock® also each have radio accessories), plus a Snowy® figure. Remove a panel from the LEGO rocket's cone to reveal a detailed control room. Pose a character in the room, recalling the magical moment from *Explorers on the Moon* when Tintin's crew saw the Earth for the first time from space. A top space gift for creative adults and comic lovers, the set offers both new and more experienced builders a rewarding activity to create your own fun space decor. And you can build smarter with the LEGO Builder app – zoom, rotate in 3D, track your progress and follow step-by-step digital instructions. Set contains 1,283 pieces.

ROCKET MODEL BUILDING KIT:

- Launch a personal mission to recreate the iconic Tintin® Moon Rocket (LEGO® Ideas 21367) from the classic *Destination Moon* and *Explorers on the Moon* comic books.

6 TINTIN® CHARACTERS:

- Tintin®, Captain Haddock®, Thomson and Thompson® and Professor Calculus® LEGO® minifigures, all in space suits with helmet and oxygen tank accessories, plus a Snowy® figure.

ADULT CRAFTS:

- This LEGO® rocket building set offers a fun, immersive creative project that lets adults with a nostalgic passion for Tintin® comic books create their own space decor.

HIDDEN CONTROL ROOM:

- Remove a panel from the rocket's cone to reveal a detailed control room and pose a character there without their oxygen tank and helmet.

SPACE GIFT FOR ADULTS:

- Treat yourself or give this build-and-display spaceship model to other creative adults who are Tintin® comic lovers.

3D BUILDING INSTRUCTIONS:

- Get ready to build like never before with the LEGO® Builder app, where you can save sets, track your progress, zoom in and rotate your set with 3D building instructions.

THE LEGO® FANS' CHOICE:

- This LEGO set for adults is part of the LEGO Ideas collection, where each building kit is created by a Fan Designer, voted for by LEGO fans and produced by the LEGO Group.

DIMENSIONS:

- The model rocket ship in this collectible 1,283-piece set measures over 19.5 in. (49 cm) high, 8 in. (20 cm) long and 9 in. (23 cm) wide.

The box is black with the LEGO logo in the lower left corner, and a white line drawing of Tintin and Snowy in the upper left, next to the words "TINTIN MOON ROCKET." The front of the box shows a tall rocket. The rocket is roughly cigar shaped, and it stands upright on three, curving fins. The nose cone and the bottom of the rocket are solid red. The middle section of the rocket has a checkerboard pattern of red and white squares. There are five minifigures, all wearing clear helmets and orange spacesuits, standing below the rocket. There is also a small dog, also wearing a spacesuit. The rocket absolutely towers over them, and looks very impressive!

The top of the box shows all of the minifigures, from left to right they are Tintin, Captain Haddock, Professor Calculus, and the nearly identical detectives Thompson and Thomson. There is also a life sized image of the Snowy minifigure.

The back of the box shows the rocket, once again standing over the minifigures. There is a small inset image, showing half of the nose cone removed to reveal a detailed control room! The Tintin minifigure stands inside the control room with his helmet removed. There is a small blueprint showing a side view of the rocket. It shows that the rocket is 19.5 inches or 49 cm tall and 9 inches or 23 cm tall.

Welcome to Text-Based Building Instructions from Bricks for the Blind. Here is some helpful information on how to best use screen readers and browsers: bricksfortheblind.org/help-with-screen-readers. Before you start building, here are some terms we will 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 the 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 who may want to follow along with the printed visual instructions that come with each kit, PDF versions are always online at LEGO.com:

(<https://www.lego.com/en-us/service/building-instructions/21367>) 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 eleven bags labeled 1-11, a sticker sheet, and an instruction booklet. Sort the pieces into groups as described below. Note that where there are multiple colors of the same brick in a step, the colors will be split across two 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.

This build is 1283 pieces, and 220 building steps.

Bag 1 (6 groups of bricks)

Minifigure Group: Tintin

This group contains the pieces for steps 1-5 of the Tintin minifigure. Place sticker #1 for step 5.

Minifigure Group: Snowy

This group contains the pieces for steps 1-3 of the Snowy minifigure.

Main Build: Moon Rocket

Group 1 contains the pieces for steps 1-7 of the moon rocket.

Group 2 contains the pieces for steps 8-10.

Group 3 contains the pieces for steps 11-19.

Group 4 contains the pieces for steps 20-24.

Bag 2 (4 groups of bricks)

Group 5 contains the pieces for steps 25-31, except the orange pieces for steps 28 and 30.

Group 6 contains the orange pieces for steps 28 and 30.

Group 7 contains the pieces for steps 32-37.

Group 8 contains the pieces for steps 38-42.

Bag 3 (8 groups of bricks)

Minifigure Group: Captain Haddock

This group contains the pieces for steps 1-5 of the Captain Haddock minifigure. Place sticker #1 for step 5.

Group 9 contains the pieces for steps 43-48.

Group 10 contains the pieces for steps 49-50.

Group 11 contains the pieces for steps 51-53.

Group 12 contains the pieces for steps 54-55.

Group 13 contains the pieces for steps 56-57.

Group 14 contains the pieces for steps 58-62.

Group 15 contains the pieces for step 63.

Bag 4 (4 groups of bricks)

Group 16 contains the pieces for steps 64-69.

Group 17 contains the pieces for steps 70-73.

Group 18 contains the pieces for steps 74-79.

Group 19 contains the pieces for steps 80-82.

Bag 5 (7 groups of bricks)

Minifigure Group: Professor Calculus

This group contains the pieces for steps 1-5 of the Professor Calculus minifigure.

Group 20 contains the pieces for steps 83-90, not including the tan 1x8 plate from step 88.
Group 21 contains the tan 1x8 plate from step 88.
Group 22 contains the red pieces for steps 91-93.
Group 23 contains the rest of the pieces for steps 91-93.
Group 24 contains the red pieces for steps 94-96.
Group 25 contains the white pieces for steps 94-96.

Bag 7 (8 groups of bricks)

Group 26 contains the pieces for steps 97-99.
Group 27 contains the pieces for steps 100-105, not including the yellow 1x2 plate.
Group 28 contains the five 1x2 yellow plates from steps 105-115.
Group 29 contains the pieces for steps 106-107, not including the yellow 1x2 plate.
Group 30 contains the pieces for steps 108-113, not including the yellow 1x2 plate.
Group 31 contains the pieces for step 114, not including the yellow 1x2 plate.
Group 32 contains the pieces for steps 115-117, not including the yellow 1x2 plate.
Group 33 contains the pieces for step 118.

Bag 8 (4 groups of bricks)

Minifigure Group: Detective Thompson

This group contains the pieces for steps 1-5 of the Detective Thompson minifigure.

Minifigure Group: Detective Thomson

This group contains the pieces for steps 1-5 of the Detective Thomson minifigure.

Group 34 contains the red pieces for steps 119-121.
Group 35 contains the white pieces for steps 119-121.

Bag 9 (1 groups of bricks)

Group 36 contains the pieces for steps 122-131.

Group 10 (4 groups of bricks)

Group 37 contains the pieces for steps 132-141.
Group 38 contains the pieces for steps 142-150.
Group 39 contains the pieces for steps 151-158.
Group 40 contains the pieces for steps 159-161.

Bag 11 (5 groups of bricks)

Group 41 contains the pieces for steps 162-169.
Group 42 contains the pieces for steps 170-172.
Group 43 contains the pieces for steps 173-179. Place sticker #2 for step 179.
Group 44 contains the pieces for steps 180-183. Place sticker #3 for step 180 and sticker #4 for step 183.
Group 45 contains the pieces for steps 184-186.

A note on LEGO Technic™ part names. These parts are somewhat different from regular LEGO bricks. I'll include some definitions in case the builder or helper is not familiar with LEGO Technic™.

Axles - An axle is a connector which has an X shaped cross-section. Because their cross section is not round, anything connected to an axle using an axle-hole will rotate with that axle. Axles are longer than they are wide, and the length of an axle corresponds with how many bricks long it is. Aka a 3L axle is three bricks long. Axles come in a variety of lengths, with a 2L axle being the shortest available. They may be combined with pins, or have circular stops on them. A stop prevents the axle from sliding through an axle-hole at a specific point on the axle.

Pins - A pin is a connector which has a circular cross section and a flanged notch out of one or both ends. This flanged notch allows them to click into bricks with a pin-hole. Pins come with and without friction ridges, which are small bumps on the pin which prevent them from rotating freely. For standard pins, black is a high friction pin, and gray is a low friction pin. A standard length pin is two brick lengths long, with a stop in the middle. This prevents a brick from being pushed from one side of the pin to the other. A 1L pin is one brick long and still retains the stop, however it also includes a hollow stud at the other end. A 3L pin is three bricks long, and only contains a stop at one side, allowing two bricks to be pushed onto the other side of the pin. Pins may also have one side which is an axle.

lift-arms - A lift-arm is a basic structural element, similar to a brick or a plate, but usually without any studs. It is a beam with rounded ends and with holes in it, with the same spacing as the studs on a LEGO brick. lift-arms come in a variety of lengths, including a 1x1 lift-arm which looks like a cylinder. Thick lift-arms are as wide as a LEGO brick, and thin lift-arms are half as wide as a LEGO brick, but not the same thickness as a LEGO plate! The holes in a lift-arm arm may accept axles or pins. They also come in a variety of shapes, including tees, ells and triangles.

Gears - A gear is a functional element. They are typically discs with teeth on the outside, there are also worm gears which look like a spiraling cylinder! Gears connected by axles transmit or even transform rotational motion!

Axle and Pin Connectors - These elements are typically smaller than lift-arms, and are used to connect some combination of pins or axles. They might have pins or axles, as well as axle or pin-holes. They have a lot of different angle combinations! The simplest just connects two axles or pins together in a straight line.

Bushes/Bushings - LEGO Technic™ uses bushes largely as spacers, but they also can reduce friction between rotating parts, or can form useful elements such as handles. Bushes are typically light gray, generally cylindrical, and have an axle-hole running through the middle. They have a flange at the front and back to make them easier to pull on and off.

Before the instructions begin, there are some pages with information about the designer and the set:

MEET THE FAN DESIGNER

How Alexis Dos Santos (LEGO® Ideas name Tkel86) from Portugal finds enough hours in the day for his job as a programmer and web designer is a mystery to us. With an extensive portfolio of intricate MOCs (My Own Creations), this Fan Designer keeps busy!

"In my free time, I love doing anything that mixes creativity with ingenuity - LEGO building, electronic projects, woodworking, drawing, graphic design, 3D models and sculpting. I love reusing materials for new purposes, like disassembling a LEGO set to create another. I always remember playing with LEGO bricks -when I was a child, I inherited a box full of pieces from a cousin, and from then on, I grew my collection until I was a teenager. I had what you call a 'dark age' away from the bricks from when I was 16 to 26. Then I rediscovered my passion when, by chance, I visited a LEGO fan exhibition created by a community. I ended up joining them, and this hobby grew exponentially. This project took about six months. I've always admired Tintin, and a co-worker inspired me to recreate this model in LEGO bricks. I used some Technic parts to obtain the fittings for the legs and the top cone. I like that the model uses round and conical elements made from multiple pieces, as it is always a challenge to be able to reduce visible gaps with relatively complex fittings. Some of these elements in red were difficult to find! After I shared it on the LEGO Ideas website, my plan was to keep refining it, but little by little, while I was busy working on other projects, it reached 10,000 supporters. I love it when models combine mechanized movements and beautiful aesthetics. I hope fans will love the final model's wow factor."

There is an image of Alexis holding a red and white rocket. Alexis is a man with black hair and a black beard who is wearing a black t-shirt and glasses. The image caption says:
LEGO® Ideas Fan Designer Alexis Dos Santos with his original model /Alexis Dos Santos, concepteur amateur LEGO® Ideas.

AN EXPLORER ON THE MOON!

The red-and-white checkered rocket from *Destination Moon* (1953) and *Explorers on the Moon* (1954) remains one of the most recognizable symbols from *The Adventures of Tintin*. In the story, Tintin, Captain Haddock, Snowy and Professor Calculus embark on a daring journey to explore the dark side of the Moon, launching a groundbreaking rocket from the fictional country of Syldavia. When first published, the adventure transported readers into a future where human space travel felt within reach, at a time when an actual lunar landing was still only a dream. The rocket quickly became a signature image of technological progress and innovation, as Tintin and his friends captured the imagination of millions with a blend of adventure, suspense and modern science.

ART MEETS SCIENCE

The story seamlessly wove the characters' familiar banter, wit and humor into a suspenseful tale of espionage and scientific discovery. Because the rocket design, the Sprodj Atomic Research Center and the journey's technical details were all based on real research available at the time, the story felt both novel and convincing, and the richly detailed scenes brought advanced science to a wider audience. Tintin's legacy is now preserved in places like the Musk Herge, and the pioneering spirit of his rocket continues to inspire dreamers and explorers alike.

Herge compiled extensive research materials and documents. Some are of unclear origin, like these black/white photos, that are classified under a separate 'Merge Documentation' category.

THE LEGO® IDEAS CREW

The fan model was really well done - it was also enormous! So, we agreed to remove the tower and focus on the rocket itself, take Alexis' model from Earth to space. and feature the characters in their iconic space suits, including, of course. a LEGO® Snowy figure! Herge famously paid vigilant attention to detail and accuracy, and we wanted to do his work justice. The rocket is a 6-sided shape with a subtle curve from top to bottom. We explored countless different building techniques and angles to achieve this shape. The squares of the checkered pattern on the rocket surface are trapezoidal, and to stay true to the design, the smooth surface and authentic pattern were an exciting challenge. The fins were another technical part of the model. The solution for this was to use a reflected triangle for each of the fins to create the correct angle and lock them in to add strength to the model. For the rocket's top cone, we created a new cone element that's similar to the rocket's feet for consistency.

We included a control room at the top of the rocket to show an iconic scene after take-off, when the characters see Earth from space for the first time. We made it as accurate as possible, with decorations, details and stickers. and we even managed to add the hatch for the door into the next level in the rocket.

'Translating' the characters into minifigure form was such a fun process. They have so much personality and comic history, so we narrowed it down to expressions that reflect this storyline. The spacesuits are inspired by Explorers on the Moon, and Thomson and Thompson have their green hair as a nod to a hilarious scene in the comic book!

Building Instructions:

Sub-Build: Minifigure Stand

Bag 1.

Step 1.1

We'll start by building a base for the minifigures to stand on. Place a black 2x8 plate, horizontally, in front of you.

Step 1.2

Place a black 2x12 plate, horizontally, on the previous piece so the left sides are even. The right four columns will overhang.

Step 2.1

Place the left four columns of a black 2x12 plate, horizontally, under the right four overhanging columns of the previous piece.

Step 2.2

Place a black 2x8 plate, horizontally, on the previous piece so the right sides are even. This piece should be to the right of the first 2x12 plate.

Step 3.1

Place a black 1x2 jumper plate, vertically, on each of the leftmost two columns on the base. We'll place a minifigure's feet on these two pieces later on.

Step 3.2

Place a black 1x2 tile, vertically, to the right of the right piece from the previous step.

Step 3.3

Place a black 1x2 jumper plate, horizontally, on the front row to the right of the previous piece. Place another behind the first. Tintin's dog Snowy will stand on these two pieces.

Step 3.4

Place a black 1x2 tile, vertically, to the right of the previous two pieces.

Step 4.1

Place a black 1x2 jumper plate, vertically, to the right of the previous piece. Place another to the right of the first.

Step 4.2

Place a black 2x2 tile to the right of the right piece from the previous step.

Step 4.3

Repeat steps 4.1-4.2 two more times to the right. There should be two free columns to the right of the rightmost piece.

Step 4.4

Place a black 1x2 jumper plate, vertically, to the right of the rightmost piece from the previous step. Place another to the right of the first. The second piece should be on the rightmost column of the base.

Minifigure Group: Tintin

Step 1

Let's assemble the Tintin minifigure! Place the torso on the legs. The minifigure wears an orange spacesuit with orange gloves. The suit is baggy and you can see wrinkles printed on the legs. There is one large white dial on the front of the chest, and three small blue buttons.

Step 2.1

Find a white minifigure neck bracket. This piece has two thin rectangles that form a 90 degree angle. One has a stud on one side, and the other has a hole. Slide the hole, with the other side hanging down, over the neck of the torso. The stud should stick out of the minifigure's back.

Step 2.2

Place the head on the torso, over the previous piece. Tintin's head is printed on both sides. One side has a slight smile on his face, and the other has a surprised expression.

Step 2.3

Place the hair on Tintin's head. Tintin has short blond hair that is combed up into a point at the front.

Step 3

Next, we'll add the helmet. This forms a clear glass bubble over the head and is made from two clear half spheres. Slide the small opening on one helmet half, from the minifigure's back with the open side at the front, around the narrow base of Tintin's head. Slide the other on from the front. The two halves have pins which should connect them together.

Step 4.1.1

Next, we'll build Tintin's backpack, which contains everything he needs to survive on the moon! Place a tan 1x1 brick with studs on all four sides in front of you.

Step 4.1.2

Place a red 1x1 round tile on the top stud of the previous piece.

Step 4.2.1

Place a tan 1x1 plate with a stud sticking up from one side, with the side stud on top and the anti-stud on the right, on the left side stud of the backpack.

Step 4.2.2

Place a tan 1x1 tile on the left facing stud of the previous piece.

Step 4.3

Next we'll add the radio antenna to the backpack. Find a light gray hinged antenna. This piece looks like a 1x1 dome with a thin bar sticking out of it. The thin bar is free to move in one direction and has a small ball on the end. Place this piece, with the bar free to move up and down, on the right side stud on the backpack so the bar points to the right.

Step 4.4

Place the right stud of a blue 1x2 half cylinder, horizontally with the anti-studs at the back, on the front side stud on the backpack. Repeat symmetrically on the back side.

Step 4.5

Rotate the backpack so the antenna is on top and attach the anti-stud of the 1x1 brick with four side studs to the stud that's on Tintin's back.

Step 5.1

Now we'll build some instruments that Tintin is carrying. Place a brown 1x2 plate with a bar on one long side, horizontally with the bar at the back, in front of you.

Step 5.2

Place a sand green 1x2 tile with a sticker, horizontally, on the previous piece. This sticker shows a red dial with a black needle and two small yellow lights.

Step 5.3

Clip the bar on the instruments into Tintin's left hand (when he's standing with his backpack at the back).

Step 5.4

Place the base, horizontally so the second pair of studs from the left form a column, in front of you. Place Tintin on the leftmost pair of studs. His instruments should be on the left and he should be facing you.

Minifigure Group: Snowy

Step 1.1

Now we'll add the Snowy minifigure! Set the base aside for now. Place the dog minifigure, with the head on the right, in front of you. Snowy is a white wire fox terrier. He is also wearing a baggy orange space suit, though he's not wearing a helmet.

Step 1.2

Place a tan 1x1 plate on the stud on Snowy's back.

Step 2

Let's give Snowy his own, appropriately sized backpack! Place a blue minifigure binoculars, with the large lenses on the left, on the previous piece. The two cylinders of the binoculars represent his air tank.

Step 3

Place the base, horizontally with Tintin on the left, in front of you. Rotate Snowy 90 degrees so he's facing you, and place him on the column of two studs that's to the right of Tintin.

Main Build: Moon Rocket

Group 1.

The rocket has a red and white checkerboard pattern and three large fins, which serve as landing legs. We'll start at the bottom of the rocket and build a core which the sides and fins attach to. Let's get started!

Step 1

Set the minifigure base aside for now. Find a light gray three bladed propellor. This piece looks like three 1x2 plates with rounded ends, which meet in the middle, forming a Y shape. This piece has an axle hole at the center. Place this with one 1x2 plate vertically at the 12 o'clock position, in front of you. The other two 1x2 plates will be at the 4 and 8 o'clock positions. For the clock positions, imagine there is a clock face lying on the table in front of you, where 12 o'clock is at the back, 3 o'clock is on the right, 6 o'clock is at the front, 9 o'clock is on the left, etc.

Step 2

Place the front two studs on the middle column of a black 3x3 cross-shaped plate under the two studs of the 12 o'clock 1x2 plate from the previous piece. Repeat radially on the other two plates of the 3-bladed propeller.

Note: I'll use radially instead of symmetrically a lot in this build! Radially means when things extend out from a central point, like how the petals of a daisy extend out from the center of the flower.

Step 3

Place a light brown 2x3 C-shaped plate, horizontally with the opening of the C at the front, on the back two rows of the 12 o'clock piece from the previous step. The row of three studs will be at the back and the opening of the C will wrap around the back stud of the propeller. Repeat radially on the other two pieces from the previous step.

Step 4

Place a red 1x1 plate with two studs sticking up from one side, with the side studs at the back, under both the back left and back right corners of the 12 o'clock piece from the previous step. Repeat radially on the 4 and 8 o'clock pieces. The side studs should all face away from the center. You'll place six pieces in this step.

Step 5

Place a red 1x3 tile, horizontally and centered horizontally, on the bottom side studs of the two 12 o'clock pieces from the previous step. Repeat radially on the 4 and 8 o'clock pieces.

Step 6

Place a white 1x1 round plate on the leftmost and rightmost studs on the back row in the 12 o'clock position. These should be placed on studs facing up, not on the side studs. Repeat radially on the 4 and 8 o'clock pieces. You'll place six pieces in this step.

Step 7

Place the back stud of a black 3x3 cross-shaped plate between the 12 o'clock pieces from the previous step. The front stud on this piece will be directly behind the axle hole at the center of the rocket core. Repeat radially on the 4 and 8 o'clock pieces.

Group 2.

Step 8.1

Place a light gray 2x3 C-shaped plate, horizontally with the opening of the C at the back, on the back two rows of the 12 o'clock piece from the previous step. Repeat radially on the 4 and 8 o'clock pieces.

Step 8.2

Place a white 1x1 round plate, centered horizontally, in front of the 12 o'clock piece from the previous step. This piece will be directly behind the axle hole at the center of the rocket core. Repeat radially on the 4 and 8 o'clock pieces.

Step 9

Place a light gray three bladed propellor, centered with one 1x2 plate vertically at the 12 o'clock position, on the rocket core.

Step 10.1

Now we'll make three small assemblies. Place a white 1x2 brick with two holes, vertically, in front of you.

Step 10.2

Push a tan 1.5L pin, horizontally with the 1L side on the right, from the left into the front hole of the previous piece. The 0.5L side will extend to the left.

Step 10.3

Repeat steps 10.1-10.2 two times.

Step 10.4

Place one of the assemblies we just made, vertically with the exposed pin on the left, on the leftmost column of studs on the 12 o'clock section of the rocket core. Repeat radially on the 4 and 8 o'clock positions. The pins should all be in the holes closest to the center, and should point away from any studs.

Group 3.

Step 11.1

Now we'll make three more small assemblies. Place a dark blue 1x2 brick with two holes, vertically, in front of you.

Step 11.2

Push a tan 1.5L pin, horizontally with the 1L side on the left, from the right into the front hole of the previous piece. The 0.5L side will extend to the right.

Step 11.3

Repeat steps 11.1-11.2 two times.

Step 11.4

Place one of the assemblies we just made, vertically with the exposed pin on the right, on the rightmost column of studs on the 12 o'clock section of the rocket core. This is symmetrical to the first assembly on the 12 o'clock position. Repeat radially on the 4 and 8 o'clock positions. The pins should all be in the holes closest to the center, and should point away from any studs.

Step 12

Place a light gray 1x1 brick with an axle hole, with the hole facing left and right, on the front stud of each of the two 1x2 bricks with holes that are on the 12 o'clock section of the rocket core. Repeat radially on the 4 and 8 o'clock positions. You will place six pieces in this step.

Step 13

Place an orange 1x1 tall plate behind each of the two 12 o'clock pieces from the previous step. Repeat radially on the 4 and 8 o'clock positions. You will place six pieces in this step.

Step 14

Place a red 1x1 plate with two studs hanging down from one side, with the side studs at the back, on each of the two 12 o'clock pieces from the previous step. Repeat radially on the 4 and 8 o'clock positions. You will place six pieces in this step.

Step 15

Place a blue 1x1 round plate in front of each of the two 12 o'clock pieces from the previous step. Repeat radially on the 4 and 8 o'clock positions. You will place six pieces in this step.

Step 16

Place a red 1x1 plate with two studs sticking up from one side, with the side studs at the back, behind each of the two 12 o'clock pieces from the previous step. Repeat radially on the 4 and 8 o'clock positions. You will place six pieces in this step.

Step 17

Place the back stud of a yellow 1x2 plate, vertically, on each of the two 12 o'clock pieces from the previous step. The front studs will attach to 1x1 round plates. Repeat radially on the 4 and 8 o'clock positions. You will place six pieces in this step.

Step 18.1

Now we'll make a small assembly. Place a tan 2L axle connector, horizontally, in front of you. This piece is a straight cylinder with an axle hole on each end.

Step 18.2

Push a red 2L axle, from the left, into the hole on the left side of the previous piece. The left side will extend 1L.

Step 18.3

Rotate the assembly so it's upright with the axle at the bottom. Push the axle, from the top, into the center axle hole on the rocket core. Push it down until the axle connector rests on the top three bladed propeller.

Step 19.1

Push a red 4L axle, from the top, into the top hole of the axle connector we just placed.

Step 19.2

Push a pink thin bushing, from the top, onto the previous piece. Push it all the way down until it touches the axle connector.

Group 4.

Step 20.1.1

Now we'll make three more small assemblies. Place a light gray 2x3 C-shaped plate, horizontally with the open side of the C at the front, in front of you.

Step 20.1.2

Place a white 1x3 plate, horizontally, on the back row of the previous piece.

Step 20.2

Place a blue 1x1 round plate on the left stud of the previous piece. Repeat symmetrically on the right side.

Step 20.3

Place a light gray 1x1 brick with an axle hole, with the hole facing left and right, in front of each of the previous two pieces.

Step 20.4

Repeat steps 20.1.1-20.3 two times.

Step 20.5

Rotate one assembly so it's horizontal with the bricks with axle holes at the back. Place it, centered horizontally, on the back two rows of the 12 o'clock section of the rocket core. Repeat radially on the 4 and 8 o'clock sections. The 1x1 bricks with axle holes should be on the rows farthest from the center of the core.

Step 21.1

Now we'll make another small assembly. Find a brown triple axle and pin connector. This piece has a central pin hole with three evenly spaced axle connectors. It looks kind of like a letter Y. Place this, with the axle connectors at the 2, 6, and 10 o'clock positions, in front of you.

Step 21.2

Push a yellow 3L axle into each of the three axle holes on the previous piece.

Step 21.3

Slide the central pin hole of the assembly we made, from the top, down onto the axle that's at the center of the rocket core. The 3L axles should still be at the 2, 6, and 10 o'clock positions and should fit between the existing sections on the rocket core. It won't be attached yet.

Step 22

Push the center axle hole of a light gray three bladed propeller, centered with one 1x2 plate vertically at the 12 o'clock position, down onto the axle that's at the center of the rocket core. You may need to rotate this piece a couple of times to get it into the correct position. Once in place, this piece will hold the assembly we just added in place.

Step 23

Place a white 1x3 plate, horizontally and centered horizontally, on the second row from the back on the 12 o'clock section of the rocket core. Repeat radially on the 4 and 8 o'clock sections.

Step 24

Push the bottom hole of a tan 2L axle connector onto the top side of the axle that's at the center of the rocket core. It should touch the top three bladed propeller.

Bag 2.

Group 5.

Step 25.1

Place the rocket core in front of you so there is one section with three rows of studs at the 12, 4, and 8 o'clock positions. There will be axles extending between these sections at the 2, 6, and 10 o'clock positions. Push a black 8L axle, from the top, into the top of the 2L axle connector on top of the rocket core.

Step 25.2

Push a tan 2L axle connector onto the top side of the previous piece.

Step 26

Next, we'll build extensions for the three sections of the rocket core. Set the core aside for now. Place a light brown 2x3 plate, horizontally, in front of you.

Step 27

Place a light blue 1x2 plate, vertically, on the leftmost column of the previous piece. Repeat symmetrically on the right side.

Group 6 contains the orange pieces for steps 28 and 30.

Step 28

Place an orange 1x2 plate from group 6, vertically, on each of the previous two pieces.

Step 29.1

Place a light gray 1x1 brick with an axle hole, with the hole facing front and back, on the front row between the previous two pieces. Place another behind the first.

Step 29.2

Push the axle side of a black 3L axle/pin combo with a 2L axle side, with the pin side at the front, from the front into the holes of the previous two pieces. Push it all the way back so the 1L pin side extends to the front.

Step 30.1

Place a light blue 1x2 plate from group 5, vertically and centered horizontally, on the assembly.

Step 30.2

Place an orange 1x2 plate from group 6, vertically, on the previous piece.

Step 31.1

Place a dark blue 1x2 brick with two holes, vertically, to the right of the previous piece.

Step 31.2

Push a tan 1.5L pin, horizontally with the 1L side on the left, from the right into the front hole of the previous piece. The 0.5L side will extend to the right.

Group 7.

Step 32.1

Place a white 1x2 brick with two holes, vertically, on the leftmost column of the assembly.

Step 32.2

Push a tan 1.5L pin, horizontally with the 1L side on the right, from the left into the front hole of the previous piece. The 0.5L side will extend to the left.

Step 33

Place a white 1x3 plate, horizontally, on the back row of the assembly. Place another on top of the first.

Step 34

Place a black 1x3 brick with three holes, horizontally, in front of the previous two pieces.

Step 35

Push a black 2L pin, from the front, into the center hole of the previous piece. It will extend 1L to the front and it will be directly over another pin.

Step 36.1.1

Now we'll make a small assembly. Set the first part of the core extension aside for now. Place a red 9L thick liftarm, horizontally with the holes facing up and down, in front of you.

Step 36.1.2

Push a black 2L pin, from the top, into the rightmost hole of the previous piece. It will extend 1L above the liftarm.

Step 36.2.1

Push the pin side of a blue 2L axle/pin combo, with the axle side on top, from the top into the hole to the left of the previous piece.

Step 36.2.2

Push the pin side of a white 1L pin with a stud on one side, with the stud on top, from the top into the hole to the left of the previous piece.

Step 36.3

Place a blue 1x1 dome on the stud of the previous piece.

Step 36.4

Place the rest of the extension, horizontally with the two pins at the front, in front of you. Rotate the liftarm assembly so it's upright with the pin at the top at the back. Push the bottom hole on the liftarm onto the bottom pin on the rest of the extension. The third hole from the bottom on the liftarm will attach to the other pin. The pin, axle, and dome on the liftarm should all overhang to the back.

Step 37.1

Rotate the extension 180 degrees so the liftarm is upright at the back. Place a red 1x1 plate with two studs hanging down from one side, with the side studs at the front, on the leftmost stud on the front row of the extension. Repeat symmetrically on the right side.

Step 37.2

Place a black 1x1 plate with a stud hanging down from one side, with the side stud at the front, between the previous two pieces.

Group 8.

Step 38

Place a white 1x2 plate, vertically, in front of the upright 9L liftarm.

Step 39

Place a light gray 1x2 grille tile, vertically, on the previous piece.

Step 40

Place a red 1x3 plate, horizontally, on the top row of three side studs on the front side of the extension.

Step 41.1

Repeat steps 26-40 two times.

Step 41.2

Place the rocket core in front of you so there is one section with three rows of studs at the 12, 4, and 8 o'clock positions. There will be axles extending between these sections at the 2, 6, and 10 o'clock positions. Rotate one extension so it's horizontal with the upright 9L liftarm at the front. Place it on the 12 o'clock section of the rocket core so the liftarm is directly behind the upright 8L axle that's at the center of the core. Repeat radially on the 4 and 8 o'clock sections.

Step 42

Find the side studs on the back side of the 12 o'clock position. Place a red 1x8 tile, upright and vertically, on both the left and right columns of side studs, above a 1x3 tile. There will be a 1x3 plate above these pieces. Repeat radially on the 4 and 8 o'clock sections. You'll place six pieces in this step. There will be a gap between each pair of tiles we placed in this step. The build up portions are the fin mounts, and these gaps are the slots that the fins will sit in.

Bag 3.

Minifigure Group: Captain Haddock

Step 1

Let's assemble the Captain Haddock minifigure! Place the torso on the legs. Captain Haddock wears an identical orange spacesuit to Tintin.

Step 2.1

Find a white minifigure neck bracket. This piece has two thin rectangles that form a 90 degree angle. One has a stud on one side, and the other has a hole. Slide the hole, with the other side hanging down, over the neck of the torso. The stud should stick out of the minifigure's back.

Step 2.2

Place the head on the torso, over the previous piece. Captain Haddock has a thick black beard and his head is printed with two expressions. One has a scowl, and the other has a smile.

Step 2.3

Place the hair on the captain's head. He has messy black hair.

Step 3

Next, we'll add the helmet. This forms a clear glass bubble over the head and is made from two clear half spheres. Slide the small opening on one helmet half, from the minifigure's back, around the narrow base of the captain's head. Slide the other on from the front. The two halves have pins which should connect them together.

Step 4.1.1

Next, we'll build a backpack. Place a tan 1x1 brick with studs on all four sides in front of you.

Step 4.1.2

Place a red 1x1 round tile on the top stud of the previous piece.

Step 4.2.1

Place a tan 1x1 plate with a stud sticking up from one side, with the side stud on top and the anti-stud on the right, on the left side stud of the backpack.

Step 4.2.2

Place a tan 1x1 tile on the left facing stud of the previous piece.

Step 4.3

Next we'll add the radio antenna to the backpack. Find a light gray hinged antenna. This piece looks like a 1x1 dome with a thin bar sticking out of it. The thin bar is free to move in one direction and has a small ball on the end. Place this piece, with the bar free to move up and down, on the right side stud on the backpack so the bar points to the right.

Step 4.4

Place the right stud of a blue 1x2 half cylinder, horizontally with the anti-studs at the back, on the front side stud on the backpack. Repeat symmetrically on the back side.

Step 4.5

Rotate the backpack so the antenna is on top and attach the anti-stud of the 1x1 brick with four side studs to the stud that's on the captain's back.

Step 5.1

Now for the instruments. Place a brown 1x2 plate with a bar on one long side, horizontally with the bar at the back, in front of you.

Step 5.2

Place a sand green 1x2 tile with a sticker, horizontally, on the previous piece. This sticker shows a red dial with a black needle and two small yellow lights.

Step 5.3

Clip the bar on the instruments into the captain's right hand (when he's standing with his backpack at the back).

Step 5.4

Place the base, horizontally with Tintin and Snowy on the left, in front of you. Place Captain Haddock on the pair of studs to the right of Snowy. His instruments should be on the right and he should be facing you.

Main Build: Moon Rocket

Group 9.

Step 43.1.1

Now we'll make another assembly for the core. Set the core aside for now. Place a tan 2L axle connector, horizontally, in front of you.

Step 43.1.2

Push a yellow 5L axle into the right hole of the previous piece.

Step 43.2

Push a black thick bushing, from the right, onto the previous piece. Push it all the way to the left so it touches the 2L axle connector.

Step 43.3.1

Find a brown bushing with three axles. This piece has a central bushing with three evenly spaced axles around it. It looks kind of like a letter Y. Push this, with the holes facing left and right, from the right onto the axle. Push it all the way to the left until it touches the previous piece.

Step 43.3.2

Push a black thick bushing, from the right, onto the axle. Push it all the way to the left so it touches the previous piece.

Step 43.4

Push the center hole of a light gray 3L thick liftarm with a center axle hole, horizontally, onto each of the three axles of the bushing with three axles from step 43.3.1.

Step 43.5

Place the rocket core in front of you so the fin mounts are at the 12, 4, and 8 o'clock positions. There will be axles extending between these sections at the 2, 6, and 10 o'clock positions. Rotate the assembly we just made so it's upright with the 2L axle connector at the top and so the 3L thick liftarms are at the 2, 6, and 10 o'clock positions. Push the axle, from the top, onto the axle connector that's in the center of the rocket core. You may need to rotate the assembly to get the liftarms in the correct positions.

Step 44

Push a red 2L axle, from the top, into the axle connector that's on top of the assembly we just placed.

Step 45

Find the three 3L thick liftarms that are near the top of the rocket core. Push the pin side of a blue 2L axle/pin combo, with the axle side at the front, from the front into the bottom hole of the 6 o'clock piece. Repeat radially on the 2 and 10 o'clock pieces.

Step 46

Push a black 2L pin, from the front, into the top hole of the 3L thick liftarm in the 6 o'clock position. Repeat radially on the 2 and 10 o'clock pieces.

Step 47.1

Now we'll build another extension for the rocket core. Set the rest of the core aside for now. Place a tan 2L axle connector, upright with the holes at the top and bottom, in front of you.

Step 47.2

Push a black 10L axle, from the top, into the top hole of the previous piece.

Step 48.1

Push a brown bushing with three axles, with the axles at the 12, 4, and 8 o'clock positions, down over the axle. Push it all the way down until it touches the 2L axle connector.

Step 48.2

Push a red bushing with a 2L pin on one end, with the pin side at the back, onto the 12 o'clock axle on the previous piece. Repeat radially on the 4 and 8 o'clock axles.

Group 10.

Step 49.1

Push a brown bushing with three axles, with the axles at the 2, 6, and 10 o'clock positions, down over the previous piece. Push it all the way down until it touches the first bushing with three axles. This piece's axles will be evenly spaced between the first three axles.

Step 49.2

Push a light gray bushing with a 2L pin on one end, with the pin side at the front, onto the 6 o'clock axle on the previous piece. Repeat radially on the 2 and 10 o'clock axles.

Step 50.1

Push a brown bushing with three axles, with the axles at the 1, 5, and 9 o'clock positions, down over the axle. Push it all the way down until it touches the second bushing with three axles.

Step 50.2

Push a dark blue 2L axle connector onto each of the three axles on the previous piece.

Step 50.3

Push the axle side of a blue 2L axle/pin combo, with the pin side on the left, into the left side of the 9 o'clock piece from the previous step. Repeat radially on the 1 and 5 o'clock pieces.

Group 11.

Step 51.1

Push a brown bushing with three axles, with the axles at the 3, 7, and 11 o'clock positions, down over the axle. Push it all the way down until it touches the third bushing with three axles. This piece's axles will be offset from the first three sets of axles.

Step 51.2

Push a white 2L axle connector onto each of the three axles on the previous piece.

Step 51.3

Push the axle side of a blue 2L axle/pin combo, with the pin side on the right, into the right side of the 3 o'clock piece from the previous step. Repeat radially on the 7 and 11 o'clock pieces.

You should now have pins extending out from the center axle for every hour on the clock face! 12, 4, and 8 o'clock should be on the lowest level. 1, 5, and 9 o'clock should be on the third level from the bottom. 2, 6, and 10 o'clock should be on the second level from the bottom. 3, 7, and 11 o'clock should be on the top level.

Step 52.1

Push a brown bushing with three axles, with the axles at the 12, 4, and 8 o'clock positions, down over the axle. Push it all the way down until it touches the fourth bushing with three axles. This piece's axles will be in line with the axles of the first bushing with three axles from step 48.1.

Step 52.2

Push a red bushing with a 2L pin on one end, with the pin side at the back, onto the 12 o'clock axle on the previous piece. Repeat radially on the 4 and 8 o'clock axles.

Step 52.3

Push a pink 1L liftarm, from the back, onto the 12 o'clock piece from the previous step. Push it all the way forward so there is 1L of exposed pin behind it. Repeat radially on the 4 and 8 o'clock pieces.

Step 53.1

Push a brown bushing with three axles, with the axles at the 1, 5, and 9 o'clock positions, down over the axle. Push it all the way down until it touches the fifth bushing with three axles. This piece's axles will be in line with the axles of the third bushing with three axles from step 50.1.

Step 53.2

Push a dark blue 2L axle connector onto each of the three axles on the previous piece.

Step 53.3

Push the axle side of a blue 2L axle/pin combo, with the pin side on the left, into the left side of the 9 o'clock piece from the previous step. Repeat radially on the 1 and 5 o'clock pieces.

Group 12.

Step 54.1

Push a brown bushing with three axles, with the axles at the 3, 7, and 11 o'clock positions, down over the axle. Push it all the way down until it touches the sixth bushing with three axles. This piece's axles will be in line with the axles of the fourth bushing with three axles from step 51.1.

Step 54.2

Push a white 2L axle connector onto each of the three axles on the previous piece.

Step 54.3

Push the axle side of a blue 2L axle/pin combo, with the pin side on the right, into the right side of the 3 o'clock piece from the previous step. Repeat radially on the 7 and 11 o'clock pieces.

There should now be two pairs of pins on every hour of the clock except 2, 6, and 10 o'clock, which is the second level from the bottom.

Step 55.1

Push the bottom hole of a dark blue 5L thick liftarm, upright with the holes facing the left and right, onto the bottom pin in the 9 o'clock position. This is on the third level from the bottom. The second hole from the top will attach to a pin on the second level from the top. Repeat radially on the 1 and 5 o'clock positions.

Step 55.2

Push a red 1L pin with a stud, with the stud facing away from the center axle, in the top hole of each of the previous three pieces.

Group 13.

Step 56.1

Push the top hole of a white 5L thick liftarm, upright with the holes facing the left and right, onto the top pin in the 3 o'clock position. This is on the top level. The second hole from the bottom will also attach to a pin. Repeat radially on the 7 and 11 o'clock positions.

Step 56.2

Push a red 1L pin with a stud, with the stud facing away from the center axle, in the bottom hole of each of the previous three pieces.

Step 57

Place the rocket core in front of you so the fin mounts are at the 12, 4, and 8 o'clock positions. There will be axles extending between these sections at the 2, 6, and 10 o'clock positions. Push the axle connector on the bottom of the assembly we just made onto the axle that's extending above the rest of the rocket core. There should be 5L thick liftarms in the odd hour clock positions and only pins in the even hour clock positions. The lowest level of pins on the assembly we just placed should be in line with the fin mounts, and the level above it should be offset.

Note for sighted helpers: The top down image shown on page 39 is rotated 90 degrees from how the visual instructions show this step. I've used the visual instructions rather than the top down view to describe this step.

Group 14.

Step 58.1

Find the 1x1 dome that's on a thick liftarm above the 12 o'clock section fin mount. Push the bottom hole of a red 11L thick liftarm, upright with the holes facing front and back, onto the axle that's above this dome. The second hole from the top should attach to a pin on the lowest level of the assembly we just placed. This pin should extend 1L behind the 11L liftarm. Repeat radially on the 4 and 8 o'clock positions.

Step 58.2

Push a black 2L pin, from the back, into the highest free hole of the 12 o'clock piece from the previous step so it extends 1L away from the center of the rocket core. Repeat radially on the 4 and 8 o'clock positions.

Step 58.3

Push a dark gray 1L pin with a stud, with the stud at the back, from the back into the third hole from the top of the 12 o'clock 11L liftarm from step 58.1. Repeat radially on the 4 and 8 o'clock positions.

Step 59

Push the bottom two holes of a red 5L thick liftarm, upright with the holes facing front and back, from the back onto the two pins in the top two holes of the 12 o'clock 11L liftarm from step 58.1. The top hole will attach to another pin. Repeat radially on the 4 and 8 o'clock positions.

Step 60.1

Find the two pins that are in the 6 o'clock position. These are also in the 2 and 10 o'clock positions. Push the top hole of light gray 11L thick liftarm, upright with the holes facing front and back, onto the top pin in the 6 o'clock position. Push it all the way back so this pin extends 1L to the front. The liftarm will also attach to the other pin and one axle in the 6 o'clock position. Repeat radially on the 2 and 10 o'clock positions.

Step 60.2

Push a black 2L pin, from the front, into the hole below the top pin on the 6 o'clock piece from the previous step. Repeat radially on the 2 and 10 o'clock positions.

Step 60.3

Push a red 1L pin with a stud, with the stud facing out, into the hole below each of the pieces from the previous step.

Step 61

There should be two pins above each of the three pieces from the previous step. Push a light gray 2L thick liftarm, upright, onto each of these three pairs of pins.

Step 62

Find the stud that is below the 6 o'clock piece we just placed, as well as on the 2, 4, 8, 10, and 12 o'clock positions. Push the bar of a green 1L bar with a clip on one side, with the bar at the back and the fingers of the clip at the top and bottom, into this hollow stud. Repeat radially on the 2, 4, 8, 10 and 12 o'clock positions.

Group 15.

Step 63

Find the fourth hole from the bottom on the 6 o'clock 11L liftarm. The hole below this has an axle in it and the one above it has a pin in it. Push a white 1L pin with a stud on one side, with the stud facing out, into this hole. Repeat radially on the 2, 4, 8, 10 and 12 o'clock positions.

Bag 4.

Group 16.

Step 64.1

Now we'll make some of the rocket's iconic red and white checkerboard markings. We'll do this by making six panels that will go around the core. Set the rocket core aside. Place a white 1x5 plate, horizontally, in front of you.

Step 64.2

Place the front row of a white 2x2 curved slope tile, with the higher side at the front, on the right two studs of the previous piece.

Step 65

Place a white 1x4 doubled curved slope tile, vertically, to the left of the previous piece so the back sides are even.

Step 66

Place a white 1x5 plate, horizontally, under the previous piece and in front of the first 1x5 plate so the left and right sides are even.

Step 67.1

Place the back row of a white 2x2 curved slope tile, with the higher side at the back, on the right two studs of the previous piece, repeat symmetrically on the left side.

Step 67.2

Place a white 2x2 curved slope tile symmetrically behind the left piece from the previous step.

Step 68.1

Keeping it horizontal, flip the panel over so it's upside down. Place a yellow 1x2 plate with a bar on one long side, upside and vertically with the bar on the right, centered vertically on the rightmost column of the assembly.

Step 68.2

Place a yellow 1x2 plate, upside down and vertically, to the left of the previous piece.

Step 69

Place a dark gray 2x2 plate with two pins sticking down from the bottom, upside down with the pins on the left and right, to the left of the previous piece.

Group 17.

Step 70

Place a green 1x2 plate with a bar on one long side, upside and vertically with the bar on the left, to the left of the previous piece.

Step 71

Place a white 1x5 plate, upside down and horizontally, on the front row of the panel. Repeat symmetrically on the back side.

Step 72

Place a green 1x2 plate, upside down and horizontally, on the left two anti-studs of each of the previous two pieces.

Step 73.1

Repeat steps 64-72 two times.

Step 73.2

Place the rocket core in front of you so the fin mounts are near the bottom at the 6, 2 and 10 o'clock positions. There will be six upright 5L thick liftarms near the top in the 1, 3, 5, 7, 9, and 11 o'clock positions. Rotate one of the assemblies we just made so it's upright with the pins on the right and the side with two green 1x2 plates at the top. There should be bars at both the top and bottom sides and the top bar should be green. Push the pins on this panel into the second and third holes from the top of the 5L liftarm in the 9 o'clock position. Repeat radially with the other two panels in the 5 and 1 o'clock positions. These panels should be evenly spaced around the core.

Group 18.

Step 74.1

Now we'll add the red panels for this section. Set the rocket core aside. Place a white 1x5 plate, horizontally, in front of you.

Step 74.2

Place the front row of a red 2x2 curved slope tile, with the higher side at the front, on the right two studs of the previous piece.

Step 75

Place a red 1x4 doubled curved slope tile, vertically, to the left of the previous piece so the back sides are even.

Step 76

Place a white 1x5 plate, horizontally, under the previous piece and in front of the first 1x5 plate so the left and right sides are even.

Step 77.1

Place the back row of a red 2x2 curved slope tile, with the higher side at the back, on the right two studs of the previous piece, repeat symmetrically on the left side.

Step 77.2

Place a red 2x2 curved slope tile symmetrically behind the left piece from the previous step.

Step 78.1

Keeping it horizontal, flip the panel over so it's upside down. Place a green 1x2 plate with a bar on one long side, upside and vertically with the bar on the right, centered vertically on the rightmost column of the assembly.

Step 78.2

Place a green 1x2 plate, upside down and vertically, to the left of the previous piece.

Step 79

Place a dark gray 2x2 plate with two pins sticking down from the bottom, upside down with the pins on the left and right, to the left of the previous piece.

Group 19.

Step 80

Place a yellow 1x2 plate with a bar on one long side, upside and vertically with the bar on the left, to the left of the previous piece.

Step 81

Place a white 1x5 plate, upside down and horizontally, on the front row of the panel. Repeat symmetrically on the back side.

Step 82.1

Repeat steps 74-81 two times.

Step 82.2

Place the rocket core, upright with the three white panels at the top in the 1, 5, and 9 o'clock positions, in front of you. Rotate one of the red panels so it's upright with the pins on the left and closer to the bottom. There should be bars at both the top and bottom sides and the top bar should be green. Push the pins on this panel into the second and third holes from the bottom of the 5L liftarm in the 3 o'clock position. Repeat radially with the other two panels in the 7 and 11 o'clock positions. These panels should be in the gaps between the white panels and the bars on the tops of the white and red panels should be even.

Bag 5.

Minifigure Group: Professor Calculus

Step 1

Let's assemble the Professor Calculus minifigure! Place the torso on the legs. Professor Calculus wears an identical orange spacesuit to the other explorers.

Step 2.1

Find a white minifigure neck bracket. This piece has two thin rectangles that form a 90 degree angle. One has a stud on one side, and the other has a hole. Slide the hole, with the other side hanging down, over the neck of the torso. The stud should stick out of the minifigure's back.

Step 2.2

Place the head on the torso, over the previous piece. Professor Calculus has small, round glasses and a black goatee.

Step 2.3

Place the hair on the professor's head. He is bald on top, with a crown of black hair.

Step 3

Next, we'll add the helmet. This forms a clear glass bubble over the head and is made from two clear half spheres. Slide the small opening on one helmet half, from the minifigure's back, around the narrow base of the professor's head. Slide the other on from the front. The two halves have pins which should connect them together.

Step 4.1.1

Next, we'll build a backpack. Place a tan 1x1 brick with studs on all four sides in front of you.

Step 4.1.2

Place a red 1x1 round tile on the top stud of the previous piece.

Step 4.2.1

Place a tan 1x1 plate with a stud sticking up from one side, with the side stud on top and the anti-stud on the right, on the left side stud of the backpack.

Step 4.2.2

Place a tan 1x1 tile on the left facing stud of the previous piece.

Step 4.3

Next we'll add the radio antenna to the backpack. Find a light gray hinged antenna. This piece looks like a 1x1 dome with a thin bar sticking out of it. The thin bar is free to move in one direction and has a small ball on the end. Place this piece, with the bar free to move up and down, on the right side stud on the backpack so the bar points to the right.

Step 4.4

Place the right stud of a blue 1x2 half cylinder, horizontally with the anti-studs at the back, on the front side stud on the backpack. Repeat symmetrically on the back side.

Step 4.5

Rotate the backpack so the antenna is on top and attach the anti-stud of the 1x1 brick with four side studs to the stud that's on the professor's back.

Step 5

Place the base, horizontally with the other minifigures on the left, in front of you. Place Professor Calculus, facing you, on the leftmost pair of free studs.

Main Build: Moon Rocket

Group 20.

Step 83.1

The rocket is cigar shaped, meaning it is wider in the middle and tapers gradually down at the ends. We'll make some panels now to add that taper. Set the minifigure base and rocket core aside. Place a tan 2x14 plate, upside down and horizontally, in front of you.

Step 83.2

Place a white 1x2 plate with a vertical clip on one side, upside down and horizontally with the clip on the right, on the right two anti-studs on the front row of the previous piece. The clip will overhang. Place another behind the first.

Step 84

Place a black 2x6 plate, upside down and horizontally, to the left of the two previous pieces.

Step 85.1

Now we'll make a small assembly. Place the rest of the side panel aside for now. Find a white 2x5 bracket. This piece looks like two 2x2 plates connected by a 1x2 brick. Place this piece, horizontally with the upper 2x2 plate on the right, in front of you.

Step 85.2.1

Place a dark gray 1x2 plate with a ball on one side and a socket on the other, vertically with the ball at the back, on the leftmost column of the previous piece.

Step 85.2.2

Place a green 1x2 plate, vertically, to the right of the previous piece.

Step 85.3.1

Place a black 1x2 plate with rounded ends, vertically, on the previous piece.

Step 85.3.2

Place a tan 1x2 plate with a rail on one side, vertically with the rail on the left, to the left of the previous piece.

Step 85.4

Place a light gray 2x2 plate on the previous two pieces. The top of the assembly should be flat.

Step 85.5

Place the rest of the side assembly, upside down and horizontally with the clips on the right, in front of you. Rotate the assembly we just made so it's upside down and horizontal with the ball and socket on the left. Place this assembly on the side panel so there's one free column to the left of it. It will be to the left of a 2x6 plate. The ball should be on the front.

Step 86.1

Place a light gray 2x10 plate, upside down and horizontally, on the assembly and to the right of the raised part of the 2x5 bracket. The right end should be just to the left of the clips.

Step 86.2

Place a green 1x1 round plate, upside down, on the rightmost circular anti-stud of the previous piece.

Step 87

Place a blue 1x8 plate, upside down and horizontally, centered vertically to the left of the previous piece. This piece will also attach to circular anti-studs.

Group 21 contains the tan 1x8 plate for the next step.

Step 88

Place a tan 1x8 plate, upside down and horizontally, on the previous piece.

Step 89

Place a black 1x2 plate with rounded ends, upside down and horizontally, on the right two anti-studs of the previous piece.

Step 90.1

Repeat steps 83.1-89 five times.

Step 90.2

Place the rocket core, upright with the ring of white and red checkers at the top, in front of you with one of the checkerboard panels at the 6 o'clock position. It doesn't matter which checkerboard panel you choose for this step. Rotate one of the side panel assemblies so it's upright with the clips on top, the studs at the front, and the ball on the left near the bottom. Clip this piece onto the bar on the bottom of the 6 o'clock checkerboard panel. The rest of the assembly should hang down. Repeat radially on with the other five side panel assemblies.

Step 90.3

Now, clip the ball that's on the left side of the front panel into the socket to the left of it. Work your way around the six side panels, attaching the balls to the sockets. When you're done, the bottoms of the panels will be slightly closer to the center of the rocket than those at the top.

Group 22 contains the red pieces for steps 91-93. Group 23 contains the rest of the pieces for these steps.

Step 91.1.1

Now we'll build some assemblies that will fill in the gaps between the side panels we just placed. Set the rocket core aside for now. Place a blue 1x2 plate with a bar on one short side, horizontally with the bar on the right, in front of you.

Step 91.1.2

Place the right two studs of a light gray 1x5 plate, horizontally, on the previous piece. The left three studs will overhang.

Step 91.2

Place a green 1x2 plate, horizontally, under the previous piece and to the left of the 1x2 plate with a bar. There should still be one overhanging stud to the left of this piece.

Step 91.3

Place a white 1x3 inverted tile, horizontally, to the left of the previous piece. The right stud will attach to the last overhanging stud.

Step 91.4

Place the right two studs of a yellow 1x4 plate, horizontally, on the previous piece and to the left of the 1x5 plate. The left two studs will overhang.

Step 91.5

Place a white 1x4 tile from group 23, horizontally, on the assembly so there are two free studs to the left of it.

Step 91.6.1

Place a white 1x1 tile from group 23 to the right of the previous piece.

Step 91.6.2

Place a red 1x1 tile from group 22 to the right of the previous piece.

Step 91.7

Place the right two studs of a red 1x4 tile from group 22, horizontally, on the leftmost two studs on the assembly. The left two studs will overhang.

Step 91.8

Repeat steps 91.1.1-91.7 five times.

Step 91.9

Place the rocket core, upright with the ring of white and red checkers at the top, in front of you with one of the checkerboard panels at the 6 o'clock position. It doesn't matter which checkerboard panel you choose for this step. Find the clip that is to the left of the 6 o'clock side panel that we placed in step 90.2. This is about even with the second row from the top studs on the 2x14 plate. Rotate one of the assemblies we just made so it's vertical with the bar at the back and the tiles on top. Clip the bar into the clip we just found. Push the front end of the assembly down until it touches the rocket core. Repeat radially with the other five assemblies.

Step 92

Place the bottom stud of a red 1x4 tile from group 22, upright, onto the top stud of each of the six assemblies we just placed.

Step 93.1

Now we'll need to make sure the fin mounts on the rocket core are in the appropriate positions. Rotate the rocket so they are at the 3, 7, and 11 o'clock positions. The top checkerboard panel in the 6 o'clock position should be white, if you wanted to check it with a sighted friend or use an app to verify.

Step 93.2

Place a red 2x4 double curved slope tile from group 22, horizontally, below the 6 o'clock checkerboard panel. Its bottom row will attach to the top row of the 2x14 plate on the side panel assembly. Repeat radially below the 2 and 10 o'clock checkerboard panels.

Step 93.3

Place a white 2x4 double curved slope tile from group 23 below top checkerboard panels in the 12, 4, and 8 o'clock positions.

Bag 6.

Group 24 contains the red pieces for steps 94-96 and group 25 contains the white pieces.

Step 94.1

Now, we'll add the checkerboard pattern to the sides of the rocket that are between the top ring and the fin mounts. Place the rocket core, upright with the fin mounts at the bottom in the 3, 7, and 11 o'clock positions, in front of you. Find the upright 2x14 plate that's in the 6 o'clock position, below the top curved slope tiles. Place a red 1x4 double curved slope tile from group 24, horizontally, on the top free row of studs. This piece will be below a 2x4 double curved slope tile.

Step 94.3

Place a red 2x2 curved slope tile from group 24, with the higher side on the right, below the previous piece so the left sides are even. Place another symmetrically to the right of the first. This is the end of one red square.

Step 94.3

Next, we'll add a white square. Place a white 2x2 curved slope tile from group 25, with the higher side on the right, below the left piece from the previous step. Place another symmetrically to the right of the first.

Step 94.4

Place a white 1x4 curved slope tile from group 25, horizontally, below the previous two pieces.

Step 94.5

Place a white 2x2 curved slope tile from group 25, with the higher side on the right, below the previous piece so the left sides are even. Place another symmetrically to the right of the first. This is the end of one white square.

Step 94.6

Next, we'll add a red square. Place a red 2x2 curved slope tile from group 24, with the higher side on the right, below the left piece from the previous step. Place another symmetrically to the right of the first.

Step 94.7

Place a red 1x4 curved slope tile from group 24, horizontally, below the previous two pieces.

Step 94.8

Place a red 2x2 curved slope tile from group 24, with the higher side on the right, below the previous piece so the left sides are even. Place another symmetrically to the right of the first. This is the end of the bottom red square. These pieces should attach to the bottom two rows of the 2x14 plate.

Step 94.9

Now, rotate the rocket clockwise so the 2x14 plate to the right of the one we just worked on is at the 6 o'clock position. We'll start with a white square for this panel. Place a white 1x4 double curved slope tile from group 25, horizontally, on the top free row of studs on the 2x14 plate. This piece will be below a 2x4 double curved slope tile.

Step 94.10

Place a white 2x2 curved slope tile from group 25, with the higher side on the right, below the previous piece so the left sides are even. Place another symmetrically to the right of the first. This is the end of one white square.

Step 94.11

Next, we'll add a red square. Place a red 2x2 curved slope tile from group 24, with the higher side on the right, below the left piece from the previous step. Place another symmetrically to the right of the first.

Step 94.12

Place a red 1x4 curved slope tile from group 24, horizontally, below the previous two pieces.

Step 94.13

Place a red 2x2 curved slope tile from group 24, with the higher side on the right, below the previous piece so the left sides are even. Place another symmetrically to the right of the first. This is the end of one red square.

Step 94.14

Next, we'll add a white square. Place a white 2x2 curved slope tile from group 25, with the higher side on the right, below the left piece from the previous step. Place another symmetrically to the right of the first.

Step 94.15

Place a white 1x4 curved slope tile from group 25, horizontally, below the previous two pieces.

Step 94.16

Place a white 2x2 curved slope tile from group 25, with the higher side on the right, below the previous piece so the left sides are even. Place another symmetrically to the right of the first. This is the end of the bottom white square. These pieces should attach to the bottom two rows of the 2x14 plate.

Step 95

Rotate the rocket clockwise so the 2x14 plate to the right of the one we just worked on is at the 6 o'clock position. Repeat steps 94.1-94.16 to add checkboards to this section.

Step 96

Rotate the rocket clockwise so the 2x14 plate to the right of the one we worked on in step 95 is at the 6 o'clock position. Repeat steps 94.1-94.16 to add checkboards to this section. Now, everything above the fin mounts should have a smooth, curved, checkerboard pattern!

Bag 7.

Group 26.

Step 97

Now we'll start making the rocket taller again! Place the rocket core, upright with the fin mounts at the bottom in the 3, 7, and 11 o'clock positions, in front of you. Push the center anti-stud of a large yellow steering wheel, from the top, onto the axle that extends up from the center of the rocket core. This piece has an axle hole through the studs. The orientation of the studs doesn't matter. Push it all the way down.

Step 98.1

Push a green 2L axle connector, with the holes at the top and bottom, onto the top side of the axle that extends up through the previous piece. Push it all the way down.

Step 98.2

Push the axle side of a blue 2L axle/pin combo, with the pin side on top, from the top into the previous piece.

Step 99.1

The top portion of the rocket will taper down to a point. As we extend up, we'll make an assembly to achieve that taper. Set the rocket core aside for now. Place a red 2x4 plate, upside down and horizontally, in front of you.

Step 99.2

Place a yellow 1x2 plate, upside down and vertically, on the leftmost column of the previous piece.

Group 27.

Step 100

Place a white 1x2 plate, upside down and vertically, on the previous piece.

Step 101

Place a light gray 1x2 plate with a socket on one end, upside down and vertically with the socket at the front, on the previous piece.

Step 102

Find a light gray 2x3 bracket. This piece looks like two 1x2 plates connected by a 1x2 brick. Place the left column of this piece, upside down and horizontally with the upper 1x2 plate on the left, on the previous piece. The right end will attach to the 2x4 plate.

Step 103

Place a green 1x2 plate with two vertical clips on one side, upside down and vertically with the clips on the right, to the right of the previous piece.

Step 104

Place the right column of a white 2x2 plate, upside down, on the previous piece. This piece will be to the right of the raised portion of the 2x3 bracket.

Group 28 contains the five yellow 1x2 plates from steps 105-115.

Step 105.1.1

Now we'll make another small assembly. Set the first part of the taper assembly aside. Place a white 2x4 plate, upside down and horizontally, in front of you.

Step 105.1.2

Place a yellow 1x2 plate from group 28, upside down and vertically, on the leftmost column of the previous piece.

Step 105.2

Place a white 1x2 plate, upside down and vertically, on the previous piece.

Step 105.3

Place a black 1x2 plate with a black ball on each short end, upside down and vertically, on the previous piece. The balls will be at the front and back.

Step 105.4

Place the left column of a light gray 2x3 bracket, upside down and horizontally with the upper 1x2 plate on the left, on the previous piece. The right end will attach to the 2x4 plate.

Step 105.5

Place a green 1x2 plate with two vertical clips on one side, upside down and vertically with the clips on the right, to the right of the previous piece.

Step 105.6

Place the right column of a white 2x2 plate, upside down, on the previous piece. This piece will be to the right of the raised portion of the 2x3 bracket.

Step 105.7

Place the first part of the taper assembly, upside down and horizontally with the clips on the right, behind the second assembly. Push the ball on the back side of the second assembly into the socket on the front side of the first assembly.

There will still be four yellow 1x2 plates left in group 28.

Group 29

Step 106.1.1

Now we'll build the third part of the taper assembly. Set the first two parts aside for now. Place a red 2x4 plate, upside down and horizontally, in front of you.

Step 106.1.2

Place a yellow 1x2 plate from group 28, upside down and vertically, on the leftmost column of the previous piece.

Step 106.2

Place a white 1x2 plate, upside down and vertically, on the previous piece.

Step 106.3

Place a light gray 1x2 plate with a socket on one end, upside down and vertically with the socket at the back, on the previous piece.

Step 106.4

Place the left column of a light gray 2x3 bracket, upside down and horizontally with the upper 1x2 plate on the left, on the previous piece. The right end will attach to the 2x4 plate.

Step 106.5

Place a green 1x2 plate with two vertical clips on one side, upside down and vertically with the clips on the right, to the right of the previous piece.

Step 106.6

Place the right column of a white 2x2 plate, upside down, on the previous piece. This piece will be to the right of the raised portion of the 2x3 bracket.

Step 106.7

Place the first two parts of the taper assembly, upside down with the clips on the right, behind the third assembly. Push the socket on the back side of the third assembly onto the ball on the front side of the first two assemblies.

Step 107

Now we'll add these assemblies to the rocket. Place the rocket core, upright with the fin mounts at the bottom in the 3, 7, and 11 o'clock positions, in front of you. Rotate the taper assembly so it's upright and horizontal with the clips at the bottom. Find the six bars that are on top of the rocket core, around the steering wheel. Clip the leftmost two clips on the taper assembly onto the 6 o'clock bar. This bar should be above a white checker. Clip the middle two clips onto the 4 o'clock bar, and the rightmost onto the 2 o'clock bar. You will need to move the ball and socket joints to make this happen. When it's done, the three parts of the taper assembly should all point slightly towards the middle.

There will still be three yellow 1x2 plates left in group 28.

Group 30.

Step 108.1

Now we'll make another taper assembly. Set the rocket core aside for now. Place a white 2x4 plate, upside down and horizontally, in front of you.

Step 108.2

Place a yellow 1x2 plate from group 28, upside down and vertically, on the leftmost column of the previous piece.

Step 109

Place a white 1x2 plate, upside down and vertically, on the previous piece.

Step 110

Place a light gray 1x2 plate with a socket on one end, upside down and vertically with the socket at the front, on the previous piece.

Step 111

Place a light gray 2x3 bracket, upside down and horizontally with the upper 1x2 plate on the left, on the previous piece. The right end will attach to the 2x4 plate.

Step 112

Place a green 1x2 plate with two vertical clips on one side, upside down and vertically with the clips on the right, to the right of the previous piece.

Step 113

Place the right column of a white 2x2 plate, upside down, on the previous piece. This piece will be to the right of the raised portion of the 2x3 bracket.

There will still be two yellow 1x2 plates left in group 28.

Group 31.

Step 114.1.1

Now we'll make another small assembly. Set the first part of the taper assembly aside. Place a red 2x4 plate, upside down and horizontally, in front of you.

Step 114.1.2

Place a yellow 1x2 plate from group 28, upside down and vertically, on the leftmost column of the previous piece.

Step 114.2

Place a white 1x2 plate, upside down and vertically, on the previous piece.

Step 114.3

Place a black 1x2 plate with a black ball on each short end, upside down and vertically, on the previous piece. The balls will be at the front and back.

Step 114.4

Place the left column of a light gray 2x3 bracket, upside down and horizontally with the upper 1x2 plate on the left, on the previous piece. The right end will attach to the 2x4 plate.

Step 114.5

Place a green 1x2 plate with two vertical clips on one side, upside down and vertically with the clips on the right, to the right of the previous piece.

Step 114.6

Place the right column of a white 2x2 plate, upside down, on the previous piece. This piece will be to the right of the raised portion of the 2x3 bracket.

Step 114.7

Place the first part of the taper assembly, upside down and horizontally with the clips on the right, behind the second assembly. Push the ball on the back side of the second assembly into the socket on the front side of the first assembly.

There will still be one yellow 1x2 plate left in group 28.

Group 32

Step 115.1.1

Now we'll build the third part of the taper assembly. Set the first two parts aside for now. Place a white 2x4 plate, upside down and horizontally, in front of you.

Step 115.1.2

Place the last yellow 1x2 plate from group 28, upside down and vertically, on the leftmost column of the previous piece.

Step 115.2

Place a white 1x2 plate, upside down and vertically, on the previous piece.

Step 115.3

Place a light gray 1x2 plate with a socket on one end, upside down and vertically with the socket at the back, on the previous piece.

Step 115.4

Place the left column of a light gray 2x3 bracket, upside down and horizontally with the upper 1x2 plate on the left, on the previous piece. The right end will attach to the 2x4 plate.

Step 115.5

Place a green 1x2 plate with two vertical clips on one side, upside down and vertically with the clips on the right, to the right of the previous piece.

Step 115.6

Place the right column of a white 2x2 plate, upside down, on the previous piece. This piece will be to the right of the raised portion of the 2x3 bracket.

Step 115.7

Place the first two parts of the taper assembly, upside down with the clips on the right, behind the third assembly. Push the socket on the back side of the third assembly onto the ball on the front side of the first two assemblies.

Step 116

Now we'll add these assemblies to the rocket. Place the rocket core, upright with the fin mounts at the bottom and the 2x4 plates of the first half of the taper assembly in the 2, 4, and 6 o'clock positions. Rotate the second taper assembly so it's upright and horizontal with the clips at the bottom and the studs at the back. Find the three free bars that are on top of the rocket core, around the steering wheel. Clip the rightmost two clips on the taper assembly onto the 12 o'clock bar. Clip the middle two clips onto the 10 o'clock bar, and the leftmost onto the 8 o'clock bar. The two taper assemblies should all angle in towards the center of the rocket.

Step 117

Find a large black wheel rim. This piece is a cylinder with seven holes on one end which flares out at the other end. Rotate this piece so the holes face up and down and so the widest part is on top. Push the middle hole onto the pin that sticks up from the center of the rocket core, in the middle of the tapering section.

Group 33.

Step 118.1.1

Next, we will build some assemblies that will help hide the gaps when we cover the taper sections with curved slopes. Set the rocket core aside for now. Place a red 1x4 tile, upside down and horizontally, in front of you.

Step 118.1.2

Place a white 1x2 plate, upside down and horizontally, on the previous piece so the right sides are even.

Step 118.2.1

Place a red 1x1 plate with a stud sticking up from one side, upside down with the side stud on the right, on the right anti-stud of the previous piece.

Step 118.2.2

Place a white 1x2 inverted curved slope tile, upside down and horizontally with the higher side on the right, to the left of the previous piece.

Step 118.3.1

Place a white 1x1 round plate, upside down, on the anti-stud to the right of the previous piece.

Step 118.3.2

Place a blue 1x1 round plate with a clip under it, upside down with the fingers of the clip on the left and right, on the previous piece.

Step 118.4

Place a red 1x1 tile on the side stud on the right side of the assembly.

Step 118.5

Repeat steps 118.1.1-118.5 five times.

Step 118.6

Place the rocket, upright with the fin mounts at the bottom in the 3, 7, and 11 o'clock positions, in front of you. Rotate one of the assemblies we just made so it's upright with the 1x1 tile at the bottom and the clip at the back. Remember the steering wheel we placed in step 97? You should be able to feel it if you stick your pinkie finger between the gaps in the 2x4 plates in the taper section. Clip the clip on the back side of the assembly onto the steering wheel between the 6 and 4 o'clock portions of the taper section. Push the top of the 1x4 tile in towards the center of the rocket core.

Step 118.7

Repeat the previous step radially between all of the remaining sections of the taper assembly.

Bag 8.

Minifigure Group: Detective Thompson

Step 1

Let's assemble the Detective Thompson minifigure! Place the torso on the legs. Detective Thompson wears an identical orange spacesuit to the other explorers.

Step 2.1

Find a white minifigure neck bracket. This piece has two thin rectangles that form a 90 degree angle. One has a stud on one side, and the other has a hole. Slide the hole, with the other side hanging down, over the neck of the torso. The stud should stick out of the minifigure's back.

Step 2.2

Place the head on the torso, over the previous piece. Detective Thompson has black moustache which flares out slightly at the bottom. This small detail is the only way to tell him apart from his fellow detective, Detective Thomson. His head is printed with two expressions, one has a furrowed brown and a serious expression, the other has a laughing face.

Step 2.3

Place the hair on the detective's head. He has green, slicked back hair. His hair color is a side effect from consuming a tablet of Formula 14 in one of the Tintin books.

Step 3

Next, we'll add the helmet. This forms a clear glass bubble over the head and is made from two clear half spheres. Slide the small opening on one helmet half, from the minifigure's back, around the narrow base of the detective's head. Slide the other on from the front. The two halves have pins which should connect them together.

Step 4.1.1

Next, we'll build a backpack. Place a tan 1x1 brick with studs on all four sides in front of you.

Step 4.1.2

Place a red 1x1 round tile on the top stud of the previous piece.

Step 4.2.1

Place a tan 1x1 plate with a stud sticking up from one side, with the side stud on top and the anti-stud on the right, on the left side stud of the backpack.

Step 4.2.2

Place a tan 1x1 tile on the left facing stud of the previous piece.

Step 4.3

Next we'll add the radio antenna to the backpack. Find a light gray hinged antenna. This piece looks like a 1x1 dome with a thin bar sticking out of it. The thin bar is free to move in one direction and has a small ball on the end. Place this piece, with the bar free to move up and down, on the right side stud on the backpack so the bar points to the right.

Step 4.4

Place the right stud of a blue 1x2 half cylinder, horizontally with the anti-studs at the back, on the front side stud on the backpack. Repeat symmetrically on the back side.

Step 4.5

Rotate the backpack so the antenna is on top and attach the anti-stud of the 1x1 brick with four side studs to the stud that's on the detective's back.

Step 5

Place a brown 3L bar in his right hand (when he's facing you).

Step 6

Place the base, horizontally with the other minifigures on the left, in front of you. Place Detective Thompson, facing you, on the leftmost pair of free studs.

Minifigure Group: Detective Thomson

Step 1

Let's assemble the Detective Thomson minifigure! No, this is not an error! Detective Thomson differs from the previous Detective Thompson by missing a letter P in his name, and by the corners of his moustache! Place the torso on the legs. Detective Thomson wears an identical orange spacesuit to the other explorers.

Step 2.1

Find a white minifigure neck bracket. This piece has two thin rectangles that form a 90 degree angle. One has a stud on one side, and the other has a hole. Slide the hole, with the other side hanging down, over the neck of the torso. The stud should stick out of the minifigure's back.

Step 2.2

Place the head on the torso, over the previous piece. Detective Thomson has a black moustache which goes straight down at the bottom. His head is printed with two expressions, one has a furrowed brow and a serious expression, the other has a laughing face.

Step 2.3

Place the hair on the detective's head. Like his colleague, he has green, slicked back hair. His hair color is a side effect from consuming a tablet of Formula 14 in one of the Tintin books.

Step 3

Next, we'll add the helmet. This forms a clear glass bubble over the head and is made from two clear half spheres. Slide the small opening on one helmet half, from the minifigure's back, around the narrow base of the detective's head. Slide the other on from the front. The two halves have pins which should connect them together.

Step 4.1.1

Next, we'll build a backpack. Place a tan 1x1 brick with studs on all four sides in front of you.

Step 4.1.2

Place a red 1x1 round tile on the top stud of the previous piece.

Step 4.2.1

Place a tan 1x1 plate with a stud sticking up from one side, with the side stud on top and the anti-stud on the right, on the left side stud of the backpack.

Step 4.2.2

Place a tan 1x1 tile on the left facing stud of the previous piece.

Step 4.3

Next we'll add the radio antenna to the backpack. Find a light gray hinged antenna. This piece looks like a 1x1 dome with a thin bar sticking out of it. The thin bar is free to move in one direction and has a small ball on the end. Place this piece, with the bar free to move up and down, on the right side stud on the backpack so the bar points to the right.

Step 4.4

Place the right stud of a blue 1x2 half cylinder, horizontally with the anti-studs at the back, on the front side stud on the backpack. Repeat symmetrically on the back side.

Step 4.5

Rotate the backpack so the antenna is on top and attach the anti-stud of the 1x1 brick with four side studs to the stud that's on the detective's back.

Step 5

Place a brown 3L bar in his right hand (when he's facing you).

Step 6

Place the base, horizontally with the other minifigures on the left, in front of you. Place Detective Thomson, facing you, on the last pair of free studs.

Main Build: Moon Rocket

Group 34 contains the red pieces for steps 119-121 and group 35 contains the white pieces.

Step 119.1

Place the rocket, upright with the fin mounts at the bottom in the 1, 5, and 9 o'clock positions, in front of you. The top checker that is in the 6 o'clock position should be red and the 2x4 plate that's above it should be white. Place the top row of a white 2x4 double curved slope from group 35, horizontally, on the bottom row of the 2x4 plate. Repeat radially on the 2x4 plates in the 2 and 10 o'clock positions.

Step 119.2

Place the top row of a red 2x4 double curved slope from group 34, horizontally, on the bottom row of the 2x4 plate in the 12 o'clock position. Repeat radially on the 2x4 plates in the 4 and 8 o'clock positions.

Step 120.1

Place a red 1x4 double curved slope from group 34, horizontally, above the 12 o'clock piece from the previous step. Repeat radially on the 2x4 plates in the 4 and 8 o'clock positions.

Step 120.2

Place a white 1x4 double curved slope from group 35, horizontally, above the 6 o'clock piece from the previous step. Repeat radially above the pieces from the previous step in the 2 and 10 o'clock positions.

Step 121.1

Place a white 2x2 curved slope tile from group 35, with the higher side on the right, above the 6 o'clock piece from the previous step so the left sides are even. Place another symmetrically to the right of the first. Repeat these two pieces radially above the pieces from the previous step in the 2 and 10 o'clock positions. You'll place six pieces in this step.

Step 121.2

Place a red 2x2 curved slope tile from group 34, with the higher side on the right, above the 12 o'clock 1x4 double curved slope from step 120.1 so the left sides are even. Place another symmetrically to the right of the first. Repeat these two pieces radially above the pieces from the previous step in the 4 and 8 o'clock positions. You'll place six pieces in this step. Now the entire body of the rocket that's above the fin mounts should be covered in a checkerboard pattern!

Bag 9.

Group 36.

Step 122.1

Now, we'll build the rocket's fins! Set the rocket aside for now. We'll start by building the fins themselves and then build the landing feet. Place a red 1x12 brick, horizontally, in front of you.

Step 122.2

Place a light gray 1x2 brick with two holes, horizontally, on the previous piece so the left sides are even.

Step 123.1

Place a red 1x12 plate, horizontally, to the right of the previous piece. The right two studs will overhang.

Step 123.2

Place a red 1x2 brick, horizontally, under the right two overhanging studs of the previous piece.

Step 124.1

Place a red 1x2 plate with a hole on one end, horizontally with the hole on the right facing front and back, on the right two studs of the fin so the hole overhangs.

Step 124.2

Place a red 1x2 plate, horizontally, to the left of the previous piece.

Step 124.3

Place a red 1x8 plate, horizontally, to the left of the previous piece.

Step 125

Place a red 1x12 plate, horizontally, on the previous three pieces. It will be to the right of a 1x2 brick with two holes.

Step 126.1

Place a red 1x2 inverted slope brick, horizontally with the slope on the right, on the rightmost stud of the assembly. The slope will overhang to the right.

Step 126.2

Place a red 1x12 brick, horizontally, to the left of the previous piece.

Step 126.3

Place a red 1x1 brick to the left of the previous piece. This should be the leftmost stud of the fin.

Step 127

Place a red 1x2 plate, horizontally, on the fin so the left sides are even.

Step 128.1.1

Place a red 1x12 plate, horizontally, to the right of the previous piece.

Step 128.1.2

Place a red 1x4 plate, horizontally, on the left four studs of the previous piece. There will be two free studs to the left of this piece.

Step 128.2.1

Place a red 1x4 brick, horizontally, to the right of the previous piece.

Step 128.2.2

Place a red 1x4 plate, horizontally, to the right of the previous piece.

Step 128.3

Place a red 1x2 plate, horizontally, on the left two studs of the previous piece. Skip four studs to the left and place another. These should be on either side of a 1x4 brick.

Step 129

Place a red 1x1 plate with a stud hanging down from one side, with the side stud on the right, on the rightmost stud of the fin.

Step 130

The fins have a very distinctive curve to them. We'll add that now. Place a red 1x8 curved slope tile, horizontally with the higher side on the right, on the fin so the left sides are even. The steps in the bottom of this piece should match the stacks of plates on the fin. Place another symmetrically to the right of the first.

Step 131.1.1

Now we'll make another assembly. Set the rest of the fin aside for now. Place a red 1x2 plate with a hole, upside down and horizontally with the hole on the left, in front of you.

Step 131.1.2

Place the left two studs of a red 1x8 plate, upside down and horizontally, on the previous piece. The right six studs will overhang.

Step 131.2

Place a red 1x12 plate, upside down and horizontally, under the previous piece and to the right of the 1x2 plate with a hole.

Step 131.3.1

Place a red 1x1 plate, upside down, on the previous piece and to the right of a 1x8 plate.

Step 131.3.2

Place a red 1x2 plate, upside down and horizontally, to the right of the previous piece.

Step 131.3.3

Place a red 1x2 plate with a hole, upside down and horizontally with the hole on the right, to the right of the previous piece. The hole will not extend past the plate below it.

Step 131.4.1

Place the right two studs of a red 1x8 plate, upside down and horizontally, on the previous piece.

Step 131.4.2

Place a red 1x1 plate, upside down, to the left of the previous piece.

Step 131.4.3

Place a red 1x5x3 half arch, upside down with the slope on the right, to the left of the previous piece. The leftmost stud should be over a pin hole.

Step 131.5

Rotate the assembly so it's rightside up and horizontal with the half arch on the left. Place the rest of the fin, horizontally with the side with two holes on the left, on the assembly we just made.

Step 131.6

Repeat steps 122.1-131.5 two times.

Bag 10.

Group 37.

Step 132

Now we'll build the landing feet! Set the three fins aside for now. Place a black 2x3 plate, vertically, in front of you.

Step 133

Place a red 1x6 plate, horizontally and centered horizontally and vertically, on the previous piece. The left two and right two studs on this piece will overhang.

Step 134

Place a red 1x2 plate, horizontally, under the left two overhanging studs on the previous piece. Repeat symmetrically on the right side.

Step 135

Place the back row of a white 2x2 round plate on the front row of the 2x3 plate from step 132. The front row will overhang. Repeat symmetrically on the back side.

Step 136

Place the second row from the front of a red 3x6 half circle plate, horizontally with the rounded side at the front, under the front overhanging row of the front piece from the previous step. Repeat symmetrically on the back side.

Step 137

Place a red 1x2 plate, horizontally, on the left two studs on the middle row of the foot. This will be on a 1x6 plate. Repeat symmetrically on the right side.

Step 138.1

Place a light gray 2x3 C-shaped plate, vertically with the opening of the C on the left, centered vertically to the left of the right piece from the previous step.

Step 138.2

Place a green 1x2 half circle tile, horizontally with the flat side at the back, in front of the previous piece. This should be on the front row of a 2x2 round plate. Repeat symmetrically on the back side.

Step 139.1.1

Now we'll make a small assembly. Place a red 1x5 plate with rounded ends and an axle hole in the middle, horizontally, in front of you.

Step 139.1.2

Place a red 1x2 brick, horizontally, on the left two studs of the previous piece.

Step 139.2.1

Place a red 1x1 tile on the left stud of the previous piece.

Step 139.2.2

Place a yellow 1x1 round plate to the right of the previous piece.

Step 139.3

Push a dark gray 4L axle with a stop on one end, with the stop at the bottom, from the bottom through the axle hole in the middle of the 1x5 plate with rounded ends.

Step 139.4

Place this assembly, horizontally with the 1x2 brick on the left, centered vertically on the foot so the left sides are even. The gap in the 2x3 C-shaped plate from step 138.1 should be on the left, and the bottom of the axle should sit in this gap.

Step 140

Place a white 2x2 round plate, centered horizontally, in front of the assembly we just placed. The front row will be over a 1x2 half circle tile. Repeat symmetrically on the back side.

Step 141.1

Place a red 1x1 tile, centered vertically, on the rightmost column of the foot.

Step 141.2

Find a red 4x4 rounded corner brick. This piece is cut out so it looks like a macaroni noodle, I'll call pieces with this shape "macaroni" from now on. Place the right stud of this piece, with the flat sides on the left and back, in front of the previous piece. It will match the curve of the 3x6 half circle plate below it. Place another symmetrically to the left of the first. Repeat these two pieces symmetrically on the back side. You'll place four pieces in this step.

Group 38.

Step 142

Place a light gray 2x3 C-shaped plate, vertically with the opening of the C on the left, centered vertically and horizontally on the foot. The upright axle should be inside the opening of the C.

Step 143

Place the left stud of a green 1x2 curved slope tile, horizontally with the higher side on the left, centered vertically on the right column of the previous piece. There should be one tile to the right of this piece.

Step 144.1

Place the right stud of a white 1x2 plate with rounded ends, horizontally, in front of the left stud of the previous piece. This piece will attach to the 2x3 C-shaped plate from step 142. Repeat symmetrically on the back side.

Step 144.2

Place a blue 1x2 plate, horizontally, on each of the previous two pieces.

Step 145.1

Place a tan 1x4 plate, horizontally and centered horizontally, on each of the previous two pieces. The left and right studs of these pieces won't connect to anything.

Step 145.2

Place a dark gray 1x2 brick with an axle hole, horizontally, on the right two studs of each of the previous two pieces.

Step 146.1

Push the center axle hole of a black 1x5 plate with rounded ends and an axle hole in the middle, vertically, down onto the upright axle. Push it all the way down. It will attach to the left of the previous two pieces.

Step 146.2

Place a white 1x2 plate with rounded ends, vertically, on the front two studs of the previous piece. Repeat symmetrically on the back side.

Step 146.3

Push the center axle hole of a black 1x5 plate with rounded ends and an axle hole in the middle, vertically, down onto the upright axle so it attaches to the previous two pieces.

Step 147.1

Place a yellow 1x1 round plate on the front stud of the previous piece. Repeat symmetrically on the back side.

Step 147.2

Place the left stud of a green 1x3 plate, horizontally, behind the front piece from the previous step. The right two studs should attach to a 1x2 brick with an axle hole. Repeat symmetrically on the back side.

Step 148.1

Place a light gray 1x1 plate with two studs sticking up from one side, centered vertically with the side studs on the left, to the left of the two black 1x5 plates with rounded ends and axle holes. There should be a tile to the left of this piece.

Step 148.2

Place a yellow 1x1 round plate in front of the previous piece. Repeat symmetrically on the back side.

Step 149

Place an orange 1x3 brick, vertically, on the previous three pieces.

Step 150.1

Place a black 1x5 plate with rounded ends and an axle hole in the middle, vertically and centered vertically, to the right of the previous piece. The axle will sit just a little ways into the axle hole.

Step 150.2

Place a white 1x2 plate with rounded ends, horizontally, to the right of the second stud from the front on the previous piece. This should attach to a 1x3 plate on top of a 1x2 brick with an axle hole. Repeat symmetrically on the back side.

Group 39.

Step 151.1

Find the 1x3 brick that's to the left of the top 1x5 plate with rounded ends and an axle hole from step 150.1. Place a blue 1x1 round tile, centered vertically, on this brick.

Step 151.2

Place a yellow 1x1 round plate in front of the previous piece. Repeat symmetrically on the back side.

Step 152

Place the leftmost stud of a tan 1x4 plate, horizontally, on each of the previous two pieces.

Step 153

Place a dark gray 1x2 brick with an axle hole, horizontally, centered horizontally on each of the previous two pieces.

Step 154.1

Now we'll make a small assembly. Place a yellow 1x1 round plate in front of you.

Step 154.2

Place the back stud of a white 1x2x2 curved slope tile, vertically with the higher side at the front, on the previous piece.

Step 154.3

Place the front stud of the assembly we just made on the left stud of the back 1x2 brick with an axle hole that's on top of the foot.

Step 155.1

Find the two side studs that are on the left side of the foot, about midway up. Place a yellow 1x1 round plate on the bottom of these two studs.

Step 155.2

Place the bottom stud of a red 1x4 curved slope tile, upright with the higher side at the bottom, on the previous piece.

Step 156

Now we'll add some axles that we'll use to attach the foot to the fin. Find the two axle holes on the front side of the foot. Push a brown 3L axle with a stop on one side, with the stop at the front, into these two holes. Only push them in a little bit, we don't want them to extend past the front 1x2 bricks.

Step 157.1

Repeat steps 132-156 two times.

Step 157.2

Now we'll add the fins to the feet! Place one foot, with the upright 1x4 curved slope tile on the left, in front of you. Take one fin and rotate it so the side with three pin holes and an arch is on the left, with the arch at the bottom. We want to line up the bottom left hole with the bottom 3L axle on the foot, and the left hole on the 1x2 brick with two holes with the top 3L axle on the foot. To do this, the right side of the fin itself needs to be lifted up at about a 45 degree angle. Once things are lined up, push the pin in as far as they will go.

One way to do this is to place the leftmost end of the fin onto the rightmost column of the foot. Slide the fin left until it stops, then tilt the right end up as far as it will go. Then, Push in on the bottom 3L axle and slowly slide the fin to the right until the axle goes in. Then, adjust the angle of the fin while pushing in on the top axle.

Step 158.1

Now, we'll build a nice smooth fairing to cover the inner workings of the foot! Place a red 3x6 half circle plate, horizontally with the rounded side at the front, in front of you.

Step 158.2

Place a red 6x3x6 rounded half dome, horizontally, with the curved side at the front, on the previous piece.

Step 158.3

Repeat steps 158.1-158.2.

Step 158.4

Place one fairing, with the curved side at the front, on the foot so the left sides are even. You will need to slide the bottom of the fairing over the grounded bottom of the fin before pushing down, as there are bricks above where the bottom of the fairing needs to go. The back side of the fairing should touch the fin. Repeat symmetrically on the back side with the other fairing.

Step 158.5

Repeat steps 157.1-158.4 two times.

Group 40.

Step 159

Now we'll attach the fins to the rocket body. Place the rocket, upright with the fin mounts on top in the 1, 5, and 9 o'clock positions, in front of you. Let's turn our attention to the fin mount in the 9 o'clock position. The front side of the mount has four holes on it, from top to bottom they are a pin hole, an axle hole, another axle hole, and then a pin hole. Take one of the fins, with the foot upside down on top and the fin extending down and to the right. Slide the bottom end into the slot, as far down as it will go.

Step 160.1

Push a yellow 3L axle, from the front, into the bottom axle hole. Push in on the axle and wiggle the fin back and forth until the axle goes in. Push it all the way in. Repeat with the upper axle hole.

Step 160.2

Repeat steps 159-160.1 radially with the 1 and 5 o'clock fin mounts.

Step 161

Find the two 0.5L pins that are on the front side of the 9 o'clock fin mount. Push the top and bottom holes of a black 7L thin liftarm, upright with the holes facing front and back, onto these two pins. Repeat symmetrically on the back side of the 9 o'clock fin mount. Repeat these two pieces radially with the 1 and 5 o'clock fin mounts. You'll place six pieces in this step.

Bag 11.

Group 41.

Step 162

Now we'll make the rounded bottoms for the landing feet. Set the rest of the rocket aside for now. Place a blue 1x2 plate, horizontally, in front of you.

Step 163

Place the right stud of a red 1x2 inverted curved slope tile, horizontally with the higher side on the left, under the left stud of the previous piece. Place another symmetrically to the right of the first.

Step 164

Place a dark gray 1x2x2 tall brick with four studs on two opposite sides, horizontally and centered horizontally, on the assembly.

Step 165

Place a pink 1x1x2 tall brick with two studs on three sides, with the side without studs on the right, to the left of the previous piece. Repeat symmetrically on the right side.

Step 166.1

Place a yellow 1x1 round plate on the top side stud on the left side of the left piece from the previous step. Repeat symmetrically on the right side.

Step 166.2

Place the top stud of a red 1x2 curved slope tile, upright with the higher side on top, on the previous piece. Repeat symmetrically on the right side.

Step 167

Rotate the assembly so it's horizontal and laying flat with the side with four studs at the front. The top and bottom sides should each have two rows of four studs. Place a red 3x3x2 quarter dome, with the stud at the front right, on the top studs so the front sides are even and so there are two free columns to the right of it. Place another symmetrically to the right of the first.

Step 168

Repeat the previous step symmetrically on the bottom side of the assembly.

Step 169.1

Repeat steps 162-168 two times.

Step 169.2

Place the rocket, upright with the fins on top in the 1, 5, and 9 o'clock positions, in front of you. Rotate one of the rounded bottom assemblies so the row of four studs is at the bottom and so there are two studs on both the front and back sides. Place this assembly centered on the 9 o'clock landing foot. Repeat radially on the feet in the 1 and 5 o'clock positions.

Group 42.

Step 170.1.1

Now, we'll add panels that go between the fins. Set the rocket aside for now. Place a red 2x10 plate, horizontally, in front of you.

Step 170.1.2

Place a red 1x4 doubled curved slope tile, vertically and centered vertically, on the rightmost column of the previous piece.

Step 170.2.1

Place a red 2x2 curved slope tile, with the higher side at the back, to the left of the previous piece so the front sides are even. Place another symmetrically behind the first.

Step 170.2.2

Repeat the previous step three times to the left of the first pair of 2x2 curved slope tiles. The leftmost column of the 2x10 plate should be free when you are done.

Step 170.2.3

Place a red 1x4 doubled curved slope tile, vertically, to the left of the leftmost pair of pieces from the previous step.

Step 170.3.1

Rotate the panel so it's upside down and horizontal. Place a red 1x2 plate with a rail on one side, upside down and horizontally with the rail at the front, on the front row of the panel so the right sides are even. Repeat symmetrically on the back side.

Step 170.3.2

Place a red 1x8 plate with a rail on one side, upside down and horizontally with the rail at the front, to the left of the front piece from the previous step. Repeat symmetrically on the back side.

Step 170.4

Place a black 1x4 plate with rounded ends, upside down and horizontally and centered vertically, on the left four circular anti-studs on the 2x10 plate. Repeat symmetrically on the right side. There should be one free circular anti-stud between these pieces.

Step 170.5

Place a light gray 1x5 plate with rounded ends and an axle hole in the middle, upside down and horizontally, on the previous two pieces so the axle hole is in the gap between them. It will be centered horizontally on the panel.

Step 170.6

Place a white 1x2 hinge plate, upside down and horizontally, on the left two anti-studs of the previous piece. Repeat symmetrically on the right side.

Step 170.7

Repeat steps 170.1.1-170.6 two times.

Step 170.8

Place the rocket, upright with the fins on top in the 12, 4, and 8 o'clock positions, in front of you. Find the axle that extends to the front from the rocket between the 4 and 8 o'clock fins. Rotate the panel assembly so it's upright with the rails on the left and right and the hinge plates at the back. Push the axle on the rocket into the axle hole that's between the two 1x2 hinge plates we just placed. Repeat radially in the 2 and 10 o'clock positions.

Step 171

Push a red 2L axle, from the top, into the axle hole that is in the middle of the rocket at the top. This hole is recessed by one plate thickness so it may be difficult to feel.

Step 172.1

Now we'll close up this side of the rocket! Place a tan 2x2 ribbed thick plate in front of you.

Step 172.2

Place a red 8x8 dish, centered vertically and horizontally, on the previous piece.

Step 172.3

Push the circular anti-stud on the bottom of the assembly we just made onto the 2L axle that's extending up from the middle of the rocket. There is an axle hole in this anti-stud, so you may need to rotate the dish assembly clockwise or counterclockwise to line it up with the axle.

Group 43.

Step 173.1

Now we will work on the other end of the rocket. Set the rocket aside for now. Place a light green 3L thick liftarm, horizontally with the holes facing front and back, in front of you.

Step 173.2

Push a black 2L pin, from the front, into the left hole of the previous piece. Push another into the right hole.

Step 173.3

Slide a brown 3L axle with a stop on one end, with the stop at the front, from the front into the hole between the previous two pieces.

Step 173.4

Place the rocket, standing upright on its fins with the fins in the 1, 5, and 9 o'clock positions, in front of you. Find the seven holes on top of the rocket, near the center. Rotate the assembly we just made so the liftarm is horizontal and so the pins are at the bottom. You may need to hold the axle so it doesn't fall out! Push the two pins down into two of the holes on top of the rocket. It is not important which ones you choose.

Step 174.1

Now we'll build the rocket's nosecone! This also includes a small model of the rocket's control center, which is sized for a single minifigure. Set the rocket aside for now. Place a red 8x8 round plate in front of you.

Step 174.2

Place a tan 2x2 ribbed thick plate, centered vertically and horizontally, on the previous piece.

Step 175

Place the front two rows of a tan 3x6 half circle plate, horizontally with the rounded side at the front, in front of the previous piece. There should be one free row in front of this piece. Place another symmetrically behind the first.

Step 176

Place a tan 1x2 grille tile, horizontally, on the front piece from the previous step and in front of the 2x2 ribbed thick plate.

Step 177

Place a sand green 4x4 macaroni brick, with the flat sides at the front and right, on the left three columns of the back 3x6 half circle plate from step 175. Its curve should match the circle below it. Place another symmetrically to the right of the first.

Step 178.1

Place a sand green 1x1 round plate on the front studs of each of the previous two pieces.

Step 178.2

Find the two free studs on the back of the 4x4 macaroni bricks. Place a tan 1x1 plate with a horizontal clip on one side, vertically with the clip at the front, on the left one of these studs.

Step 178.3

Place a sand green 1x1 round plate to the right of the previous piece.

Step 179

Place a sand green 4x4x2 macaroni wall panel, with the wall panel at the back left, on the left 4x4 macaroni brick. This piece has a control panel sticker on it. It includes many black and white gauges, red and white indicator lights, and gold levers.

Group 44.

Step 180

Place a sand green 4x4x2 macaroni wall panel, symmetrically, to the right of the previous piece. This piece has a viewing screen sticker on it. The rocket itself doesn't have windows, so this is how the explorers see while in space! The viewing screen has a gold rim and shows space as a dark blue field with small white dots for stars. Faint white lines connect some stars, highlighting constellations.

Step 181.1

Now, we'll make a microphone for the intercom. Place a light gray 1x1 round plate with a 1L bar on one side, horizontally with the bar on the right, in front of you.

Step 181.2

Place a silver 1x1 round tile with a microphone pattern on the stud of the previous piece.

Step 181.3

Rotate the microphone so it's upright with the bar at the bottom and the tile at the front. Clip the bar into the clip that's in front of the two macaroni wall panels.

Step 181.4

Next, we'll add a handwheel to open and close the hatch to the lower levels! Because the rocket is a long tube, the rooms are all stacked on top of each other, with the control room at the top! Place a light gray steering wheel to the left of the 1x2 grille tile that's on the third row from the front.

Step 182

Place the rocket, upright and standing on the fins, in front of you. The orientation of the fins is unimportant. Push the hollow center anti-stud on the control room, from the top, onto the axle that extends above the middle of the rocket. The control room should be free to spin.

Step 183.1

Next, we'll make a small pedestal with a screen showing the earth. Place a light brown 2x2 round brick in front of you.

Step 183.2

Place a light brown 2x2 round tile with a viewing screen sticker on the previous piece. This sticker shows a black circle with small white stars. The earth is centered in the viewing screen. It is a dark blue planet with light brown continents.

Step 183.3

Place the pedestal, centered horizontally and vertically, in the control room. It will go behind the 1x2 grille tile.

Group 45.

Step 184

Place a red 8x4x8 half rounded cone, horizontally with the rounded side at the back, on the back four rows of the control room. It should wrap around the rest of the control room.

Step 185

Place a red 8x4x8 half rounded cone symmetrically in front of the previous piece. This piece can be removed to access the control room.

Step 186.1.1

Now, we'll build the tip of the rocket! This assembly needs to be removed to access the control room. Place a red 2x2 round tile with a single stud in front of you.

Step 186.1.2

Place a red 2x2 dish on the previous piece.

Step 186.2

Place a red 1x1 round plate with a hollow stud on the previous piece.

Step 186.3

Push a red 4L bar, from the top, into the hollow stud of the previous piece.

Step 186.4

Push the hollow anti-stud of a red steering wheel, from the top with the anti-stud at the bottom, over the previous piece. Push it about halfway down the previous piece.

Step 186.5

Place the tip of the rocket on top of the rest of the rocket.

You can remove this assembly and one half of the nose cone to access the control room. There is room for one minifigure, with their helmet removed, in the control room!

This completes the Tintin Moon Rocket.

Thank you so much for building this set!

There are two pages after the instructions end demonstrating the LEGO Ideas process. There are four circles, arranged roughly in a row from left to right, connected by a line. The first circle shows a brick and says "Share your idea." The second shows two minifigure heads and says "Gather support." The third shows a magnifying glass hovering over a brick and says "LEGO ® Review." The last shows an open box and says "New LEGO ® product."

Below this are images of three sets that have been designed by LEGO fans and have been approved as official LEGO ® Ideas sets! These are set 21376 Orange Cat, 21365 Love Birds, and 21366 Floating Sea Otters.

Congratulations on finishing your build! Would you like to inspire other blind people to build LEGO sets? Let's feature your build on our [Builders page](#). It's easy and we will do all the work! Just contact us at info@bricksfortheblind.org and together we will make it happen!

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