

Tika, Pip, Coco and Sully found a pile of old wood.

Tika, Pip, Coco, Sully



Tika tried one plank. It was not strong enough.



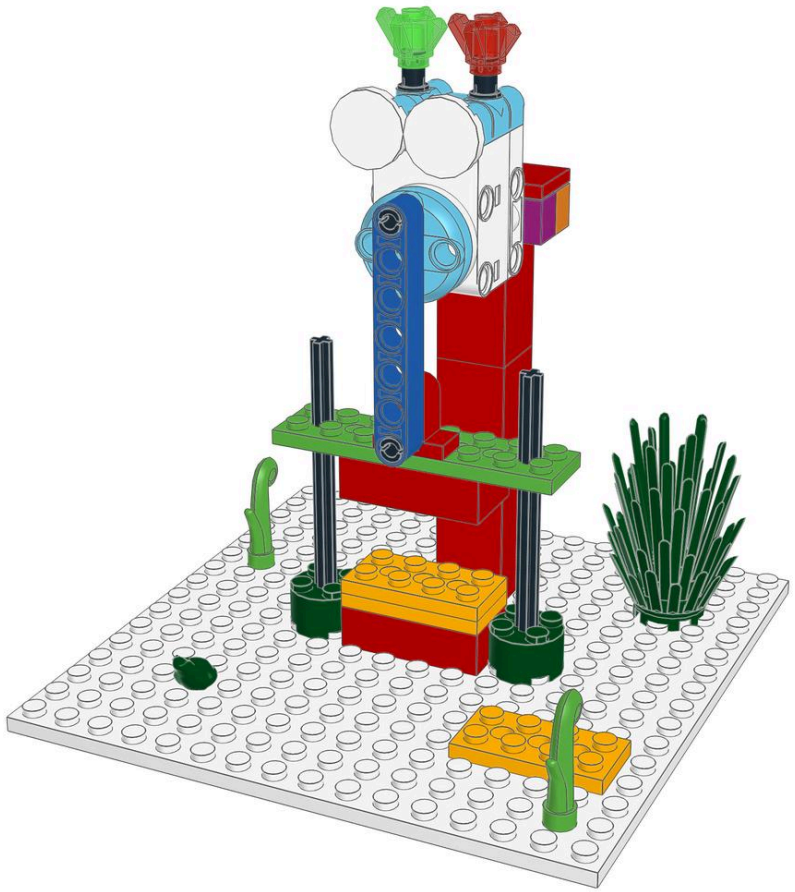
A press squeezed the wood. It came out thin and strong.

Pip, Coco, Sully



Old wood could be used again. No new tree had to fall.

Coco, Tika, Pip, Sully



Build a press. It comes down on the wood.

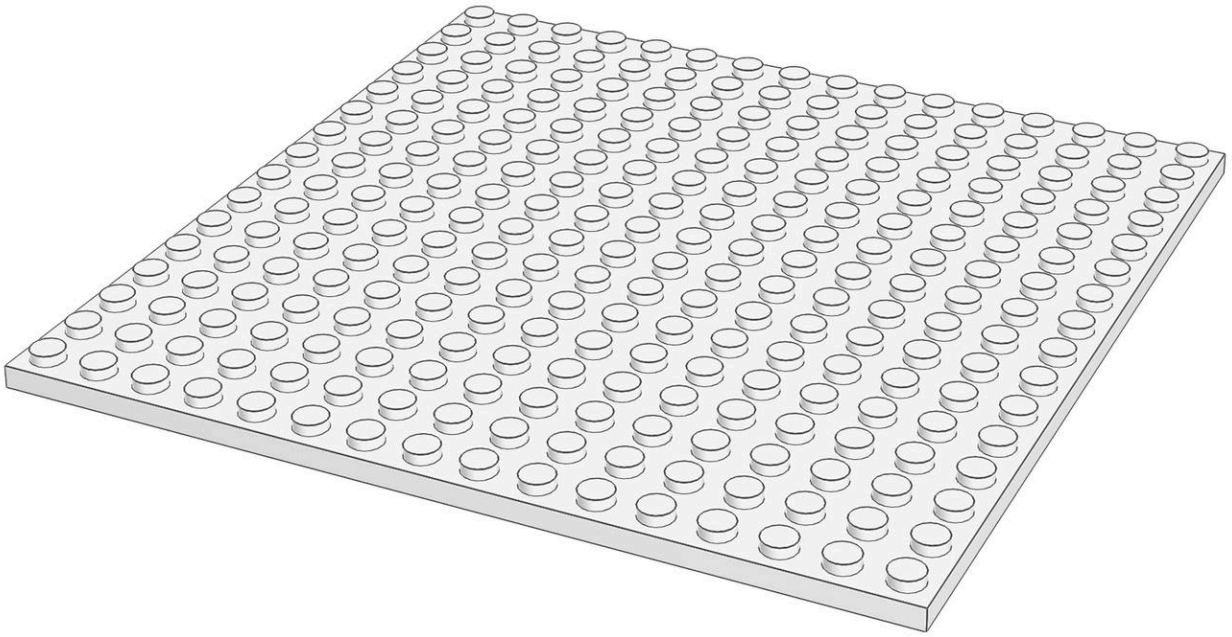
1 the table

Essential

ADD

- 1x White 16x16 plate | kit 45345

The big white plate, studs up.
This is the table.



Check: It sits flat. The whole press goes on this.

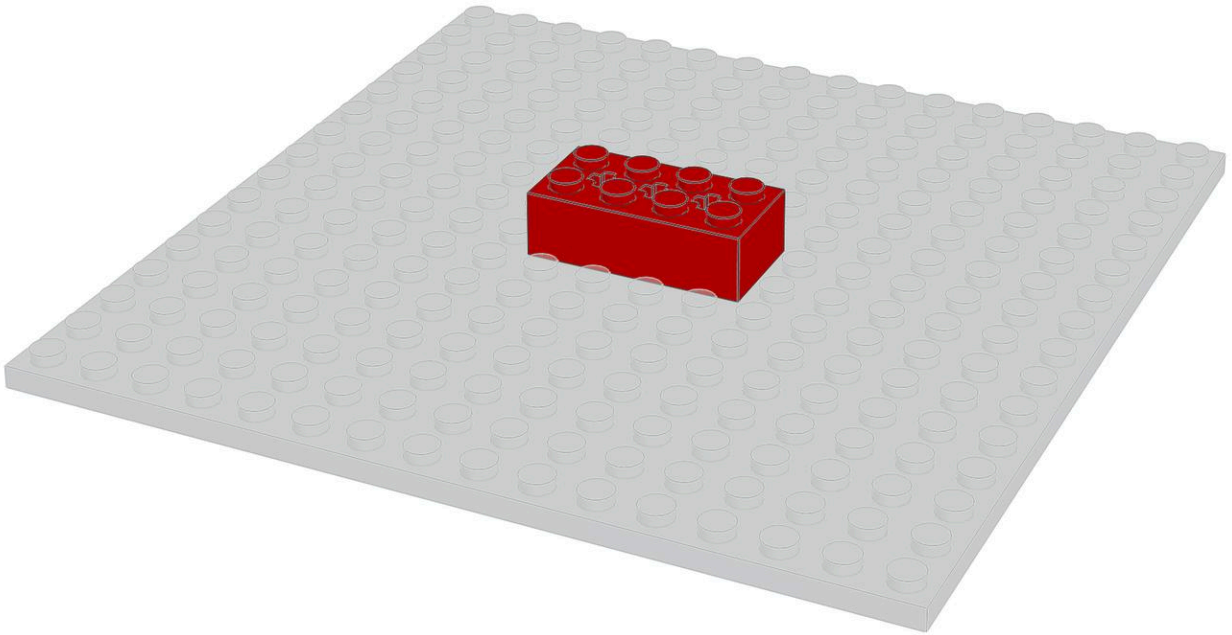
2 the bottom hot plate

Essential

ADD

- 1x Bright Red 2x4 brick with cross holes | kit 45345

Red brick in the middle. The bottom of the press.



Check: This is the bottom of the press. Red means hot. It is not hot.

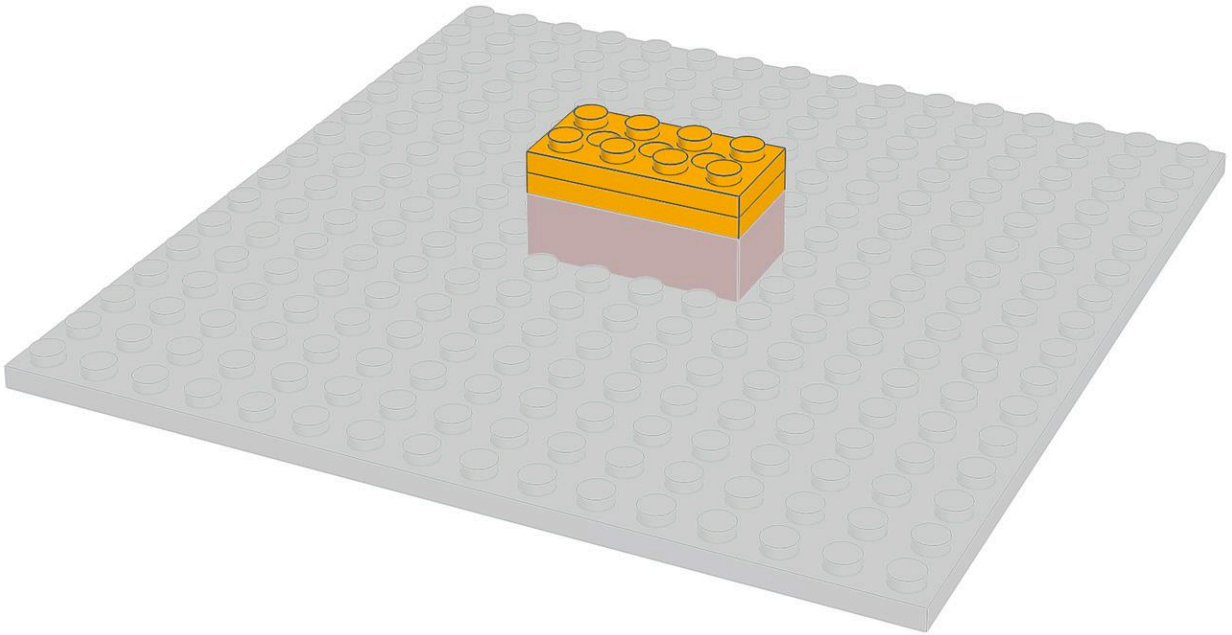
3 the old wood

Essential

ADD

- 2x Flame Yellowish Orange 2x4 plate with holes | kit 45345

Two light orange plates on top. The old wood.



Check: Two plates, one on the other. This is the old wood. It is thick.

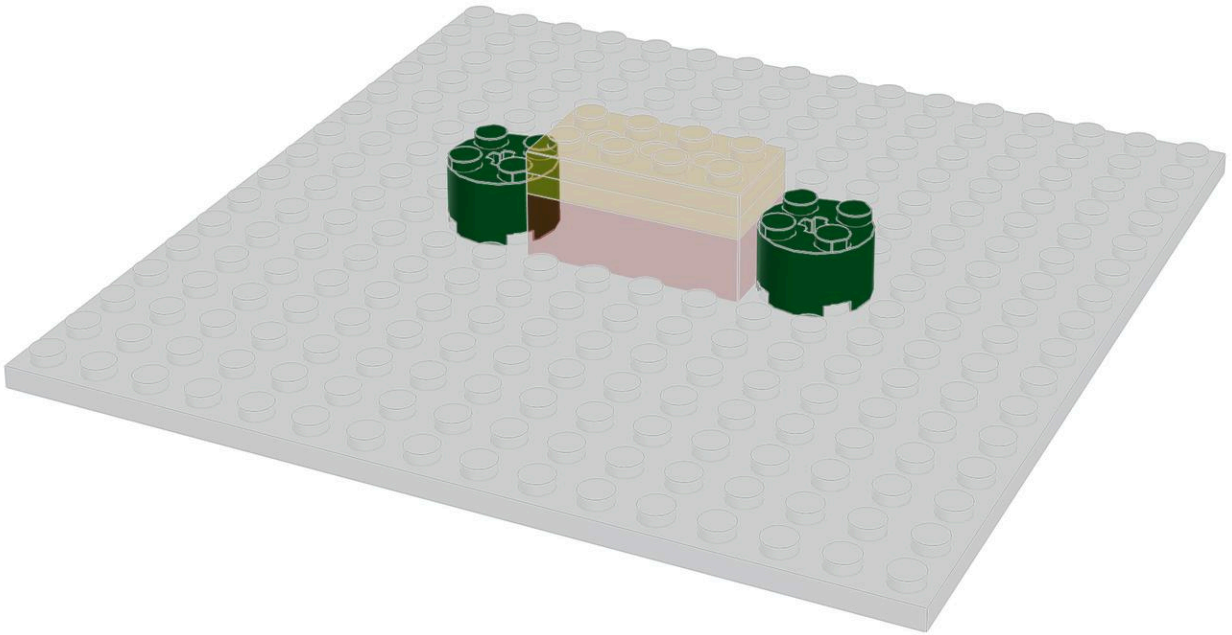
4 the guide sockets

Essential

ADD

- 2x Dark Green round brick with a cross hole | kit 45345

One round brick at each end.
Cross holes up.



Check: All three sit in one row. The cross holes point up.

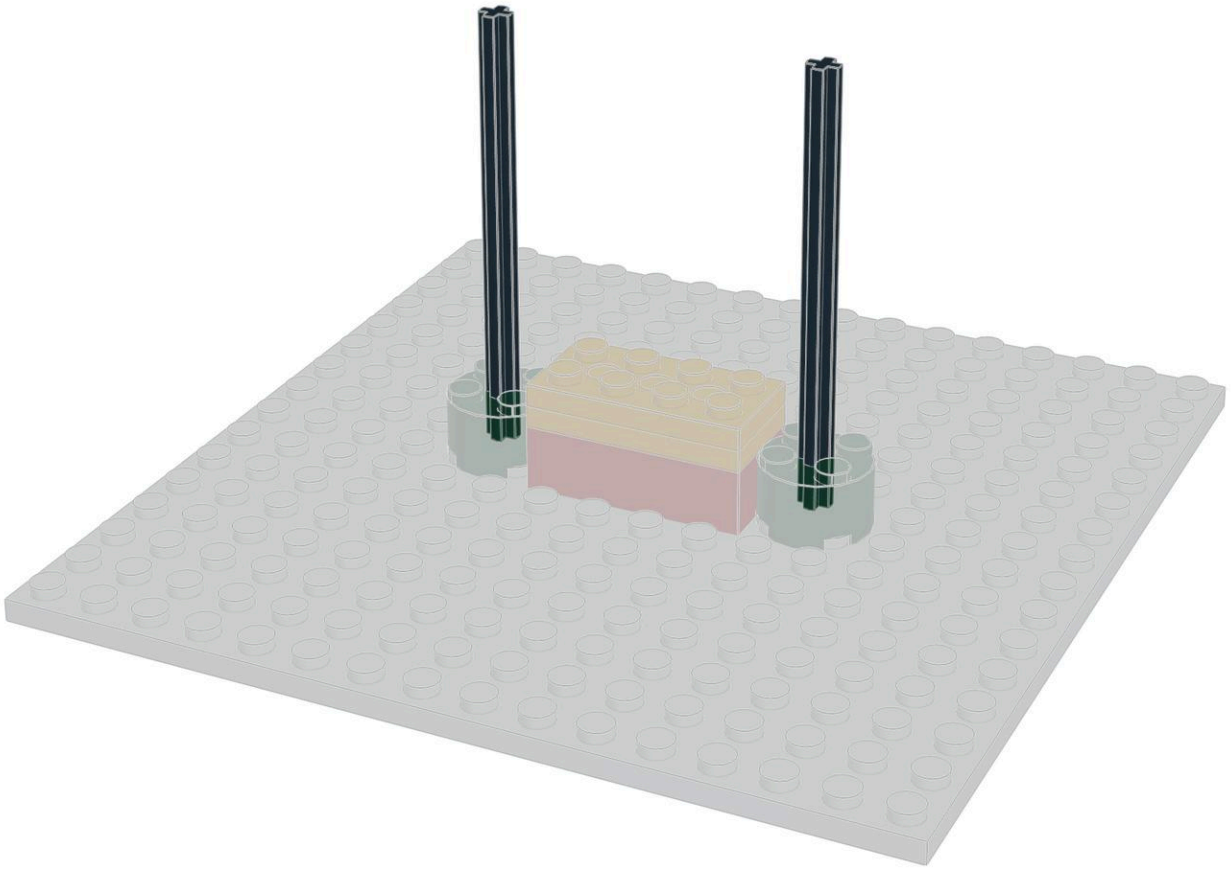
5 the guide axles

Essential

ADD

- 2x Black 8M axle | kit 45345

A black axle up from each round brick.



Check: Both stand straight up. Tug one gently. The cross hole grips it.

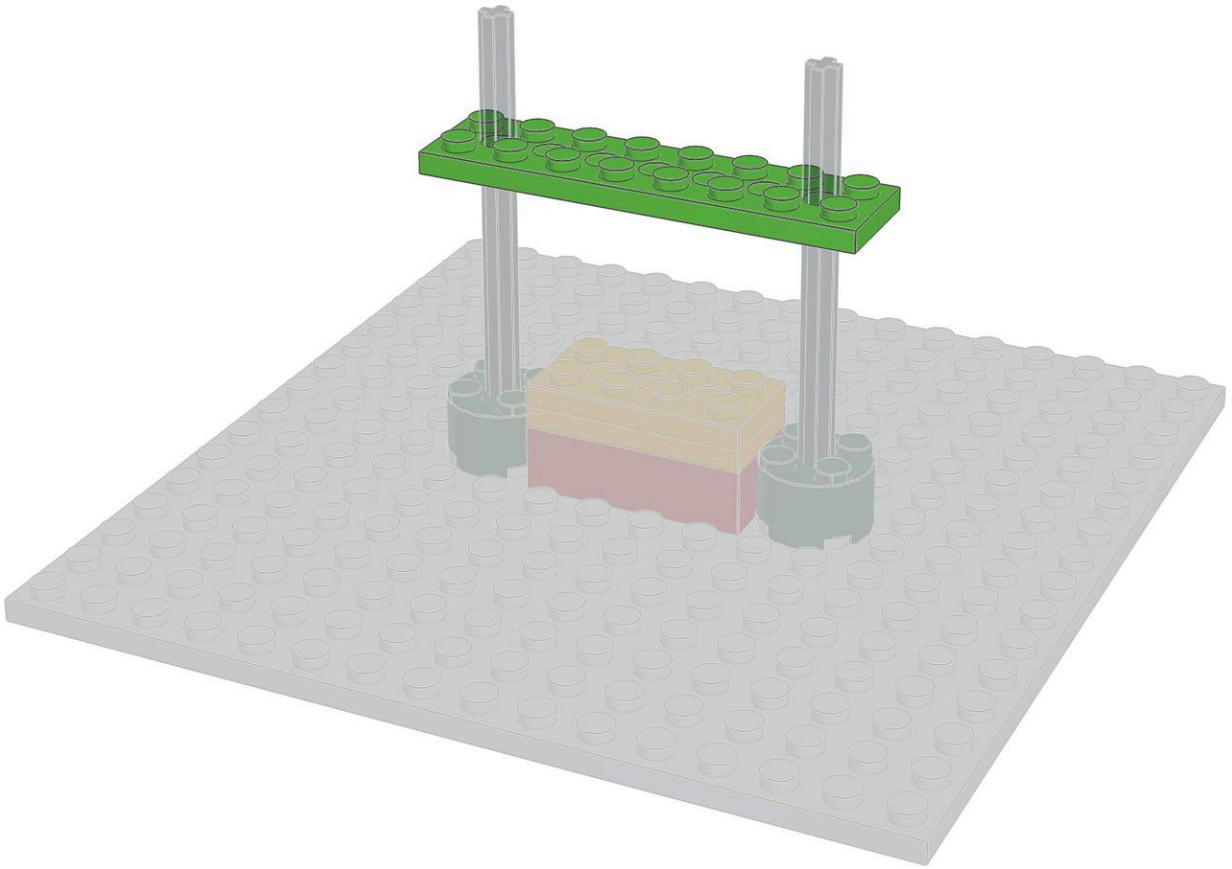
6 the press plate

Essential

ADD

- 1x Bright Green 2x8 plate with holes | kit 45345

Green plate on both axles. It slides.



Check: It slides up and down. Round holes let it move.

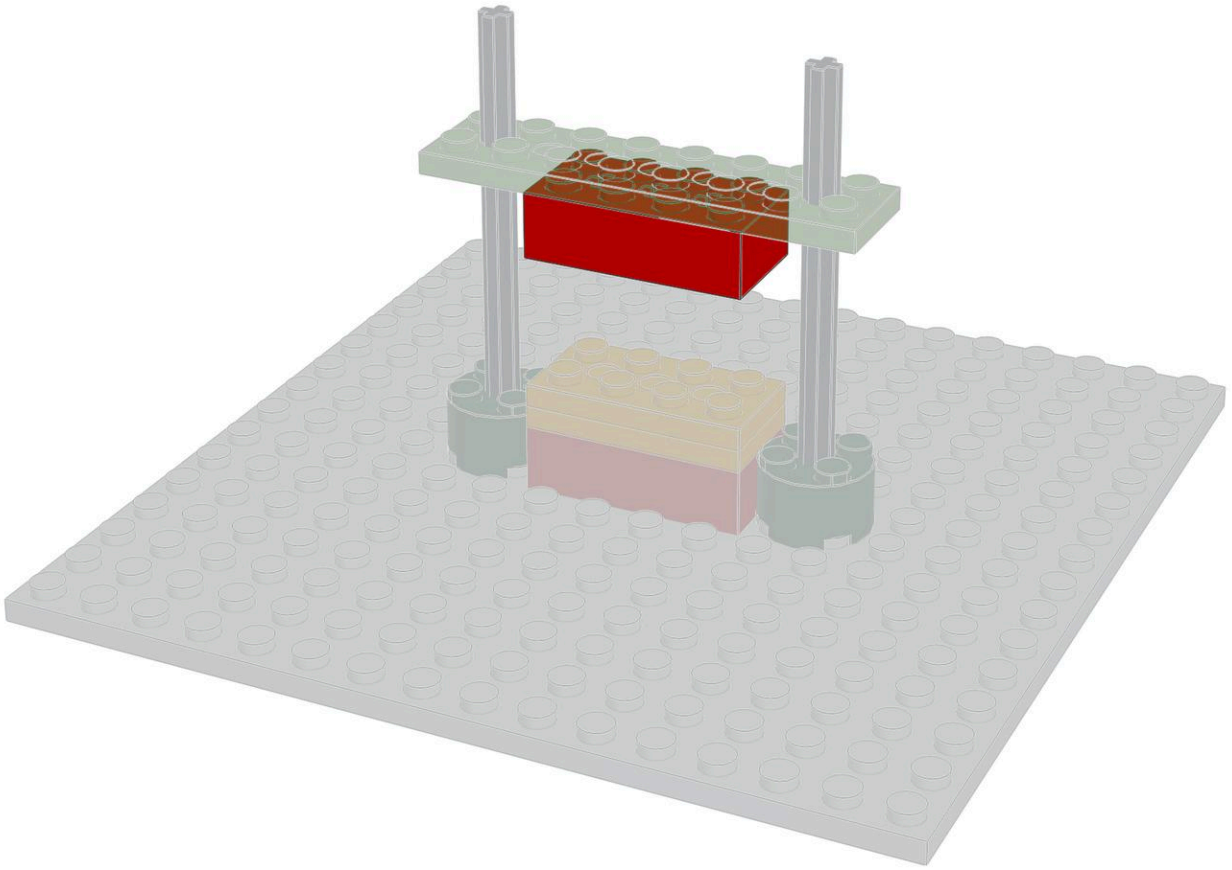
7 the press head

Essential

ADD

- 1x Bright Red 2x4 brick with cross holes | kit 45345

Red brick under the plate. The hot press head.



Check: The red brick hangs under the plate, right over the wood. This is the hot press head.

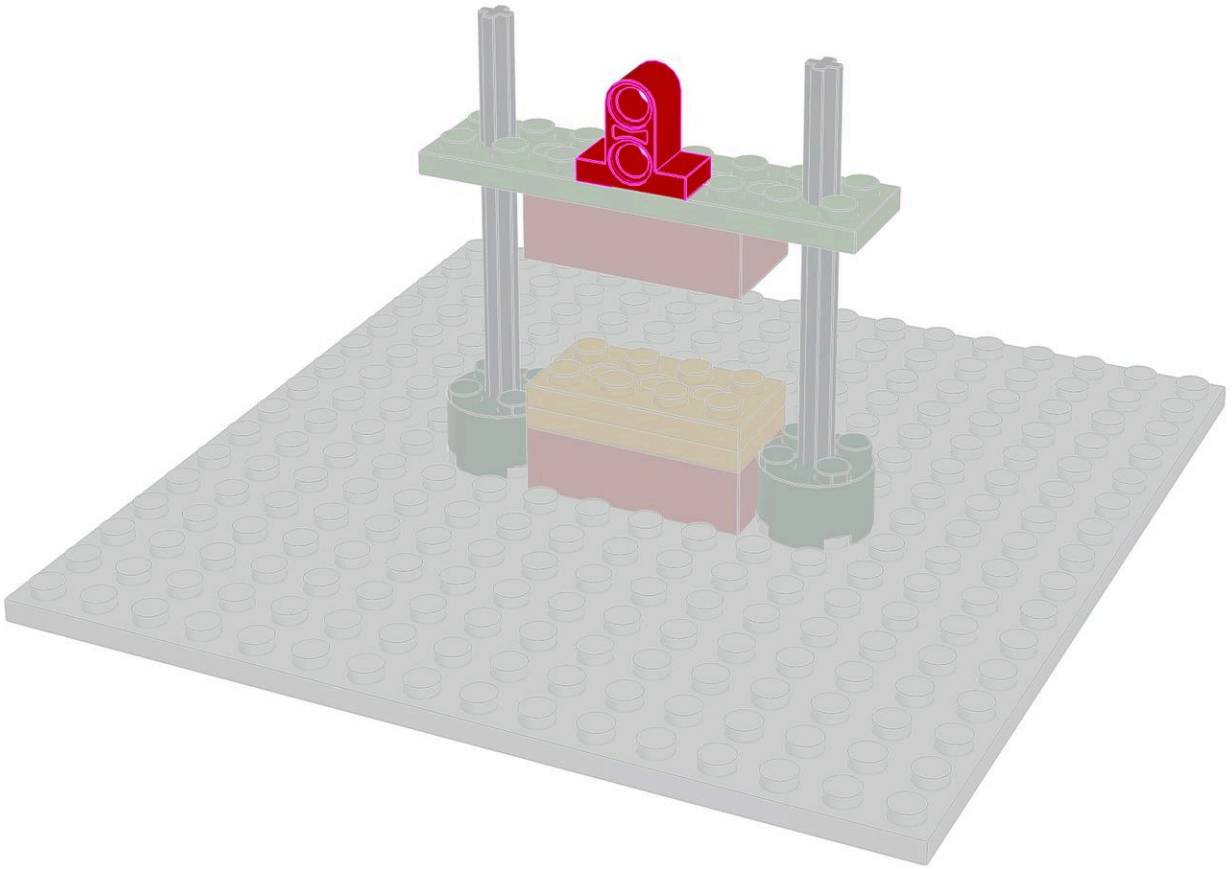
8 the hinge

Essential

ADD

- 1x Bright Red 1x2 plate with two holes on top | kit 45345

Red hinge on the front edge.
Holes point at you.



Check: Its lower hole sits just above the green plate.

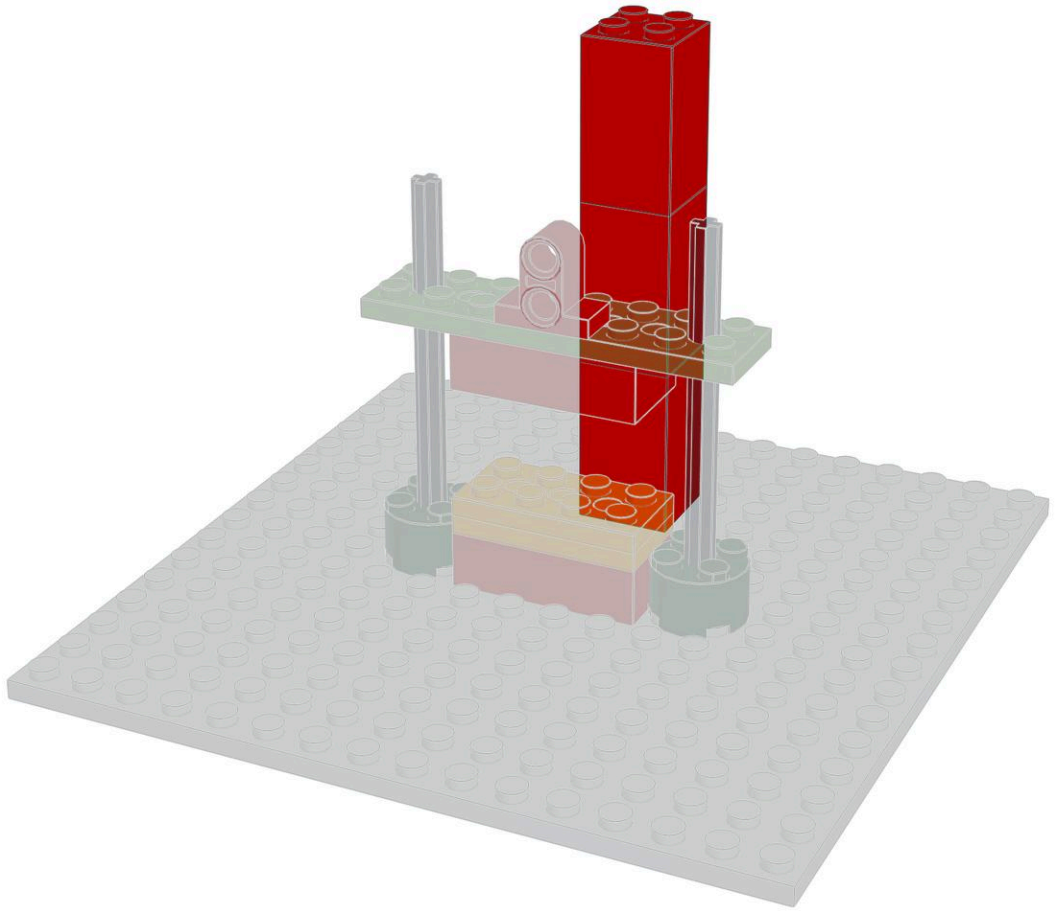
9 the tower

Essential

ADD

- 3x Bright Red 2x2x3 brick | kit 45345

Three tall red bricks behind the press. The tower.



Check: The red tower is taller than the black axles.

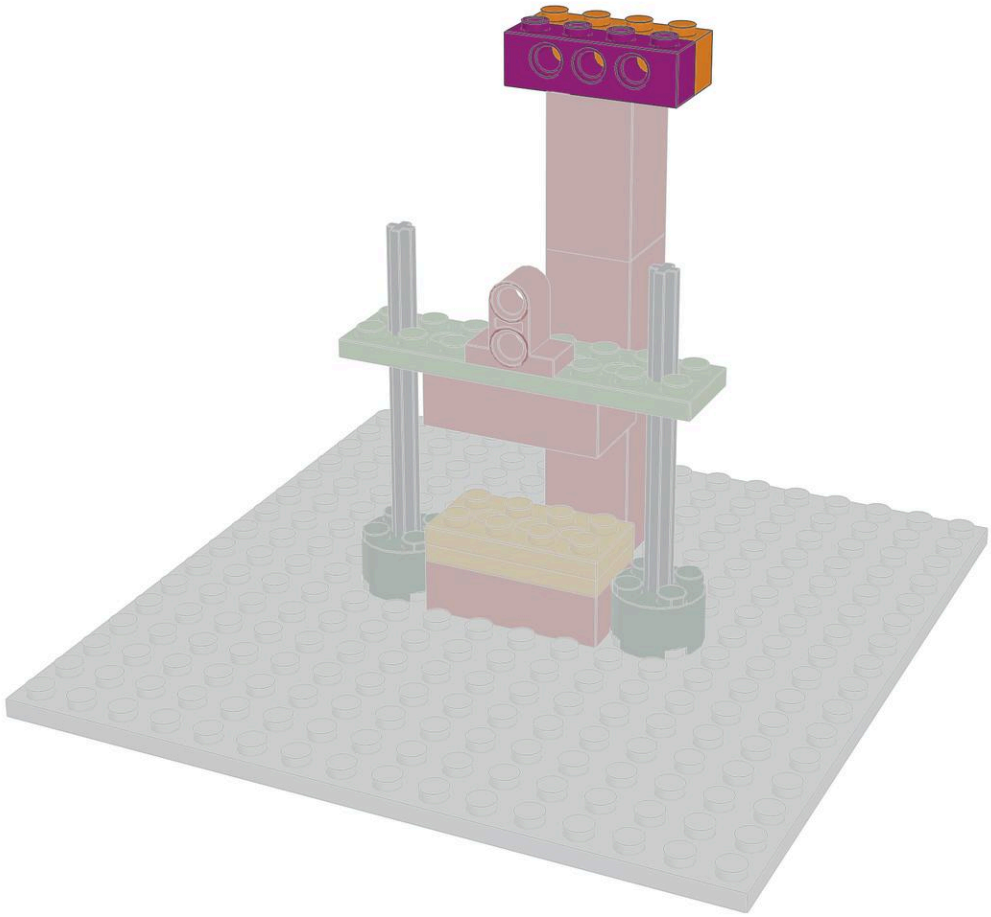
10 the motor mount

Essential

ADD

- 1x Bright Reddish Violet 1x4 Technic brick | kit 45345
- 1x Bright Orange 1x4 brick | kit 45345

Purple in front, orange behind, on top of the tower.



Check: The purple brick's three holes point at you.

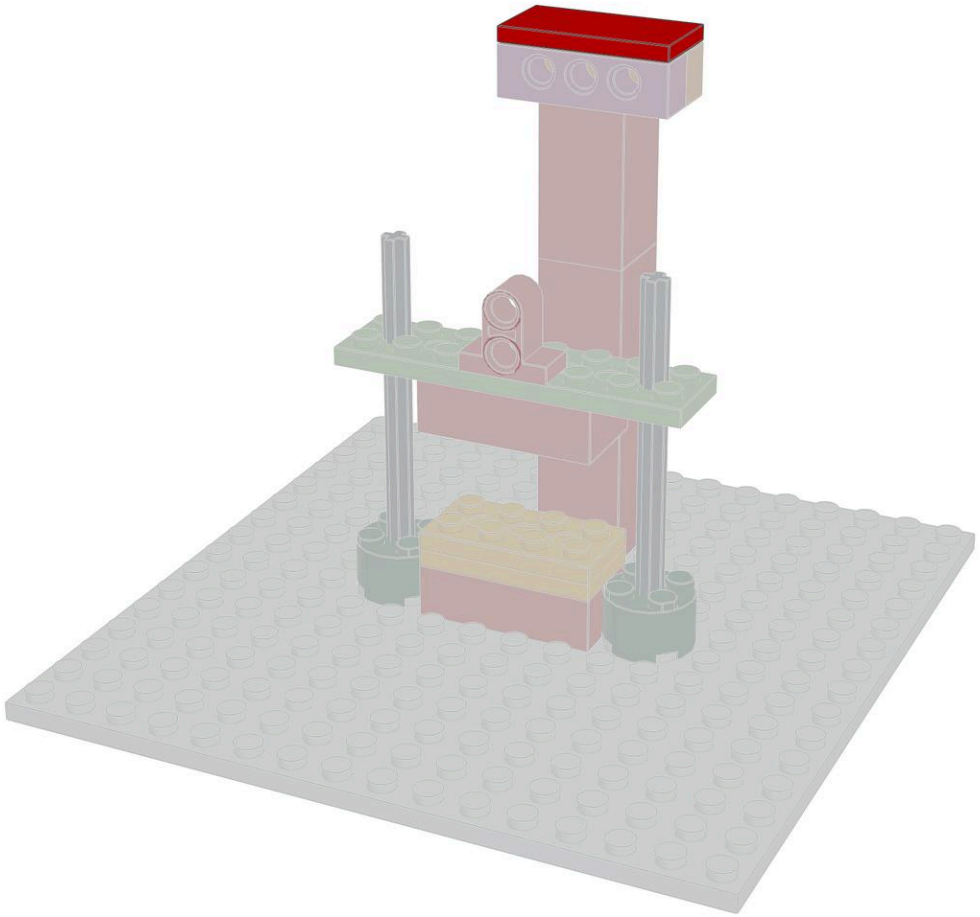
11 the cap

Essential

ADD

- 1x Bright Red 2x4 tile | kit 45345

Smooth red tile on top. Now they are locked.



Check: The purple and orange bricks are locked together now.

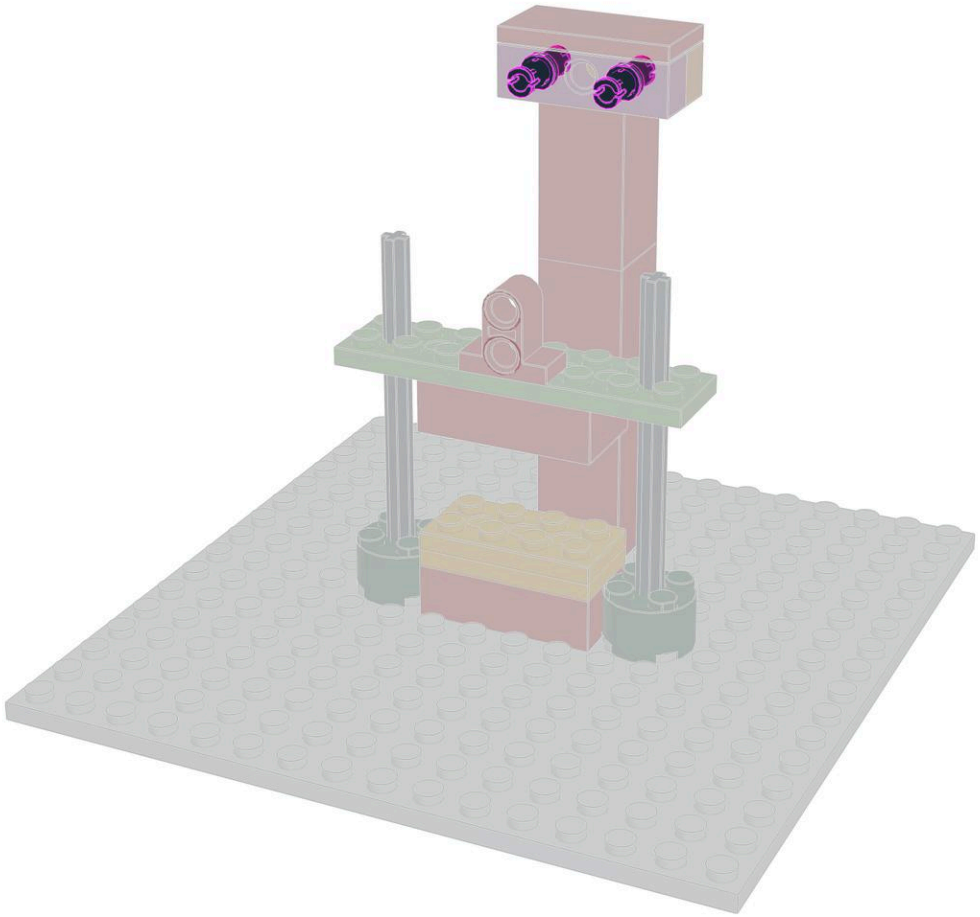
12 the motor pegs

Essential

ADD

- 2x Black connector peg (friction) | kit 45345

Two pegs in the purple brick's end holes.



Check: Two pegs stick out toward you.

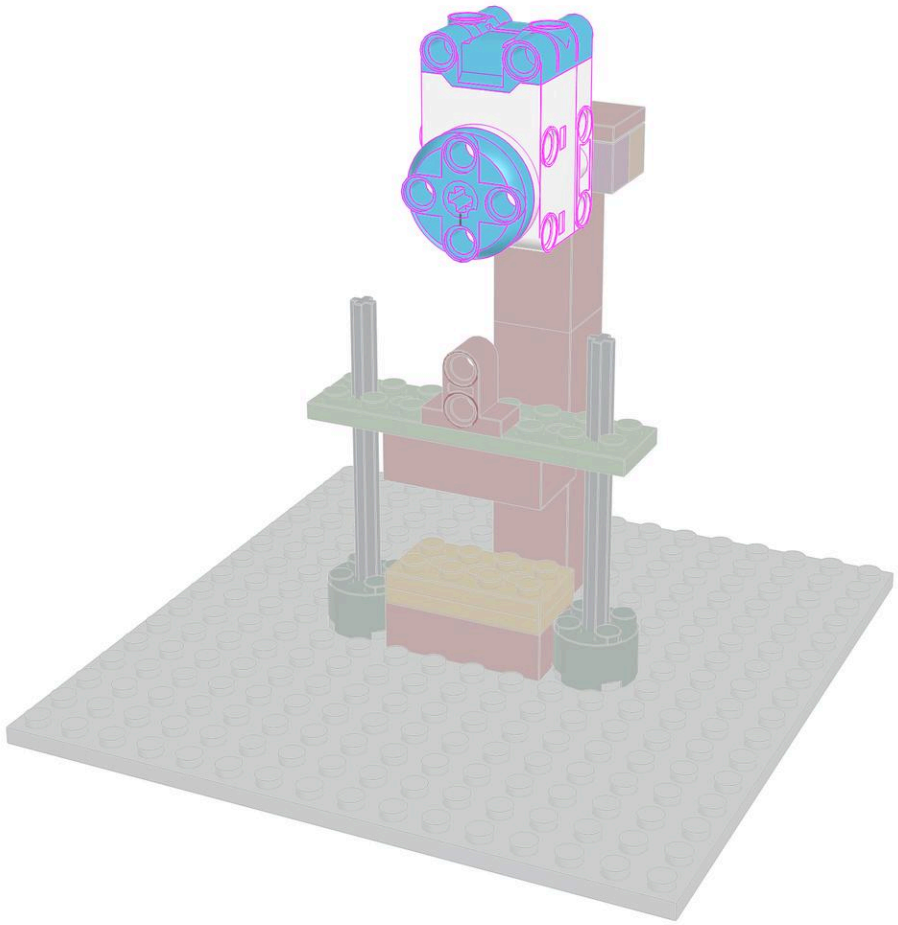
13 the motor

Essential

ADD

- 1x White Small Angular Motor | kit 45345

Motor on the pegs. Hub faces you, wire on top.



Check: The motor's back is flat on the tower, high over the green plate. It does not wobble.

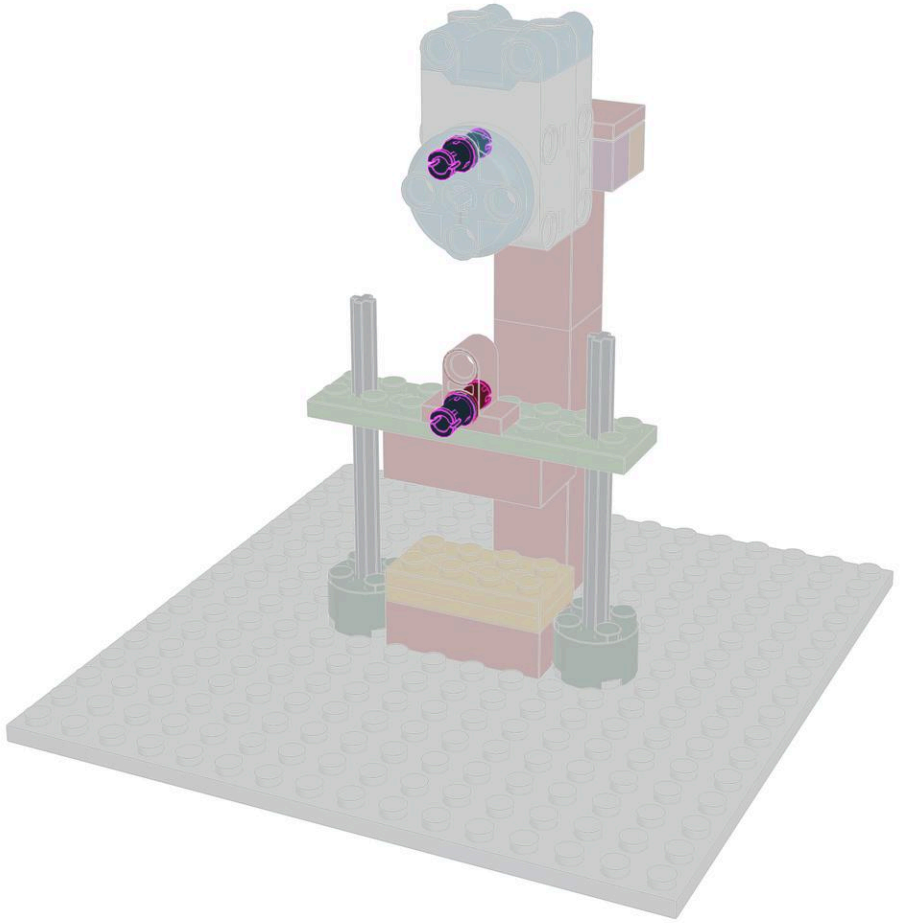
14 the crank peg and the hinge peg

Essential

ADD

- 2x Black connector peg (friction) | kit 45345

One peg in the hub's top hole.
One in the hinge.



Check: Both pegs point at you. The top peg moves when the hub turns.

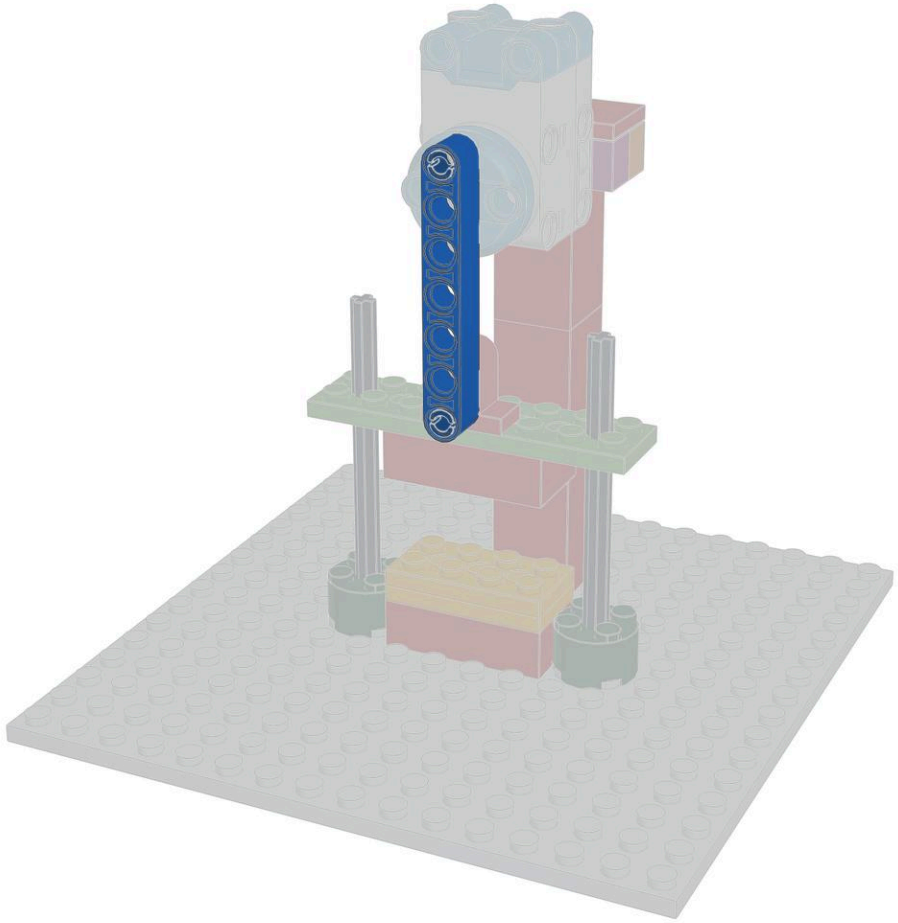
15 the rod

Essential

ADD

- 1x Bright Blue 7M beam | kit 45345

Blue beam on both pegs. The press is open.



Check: The blue beam stands straight up. The green plate hangs from it, high over the wood. The press is open.

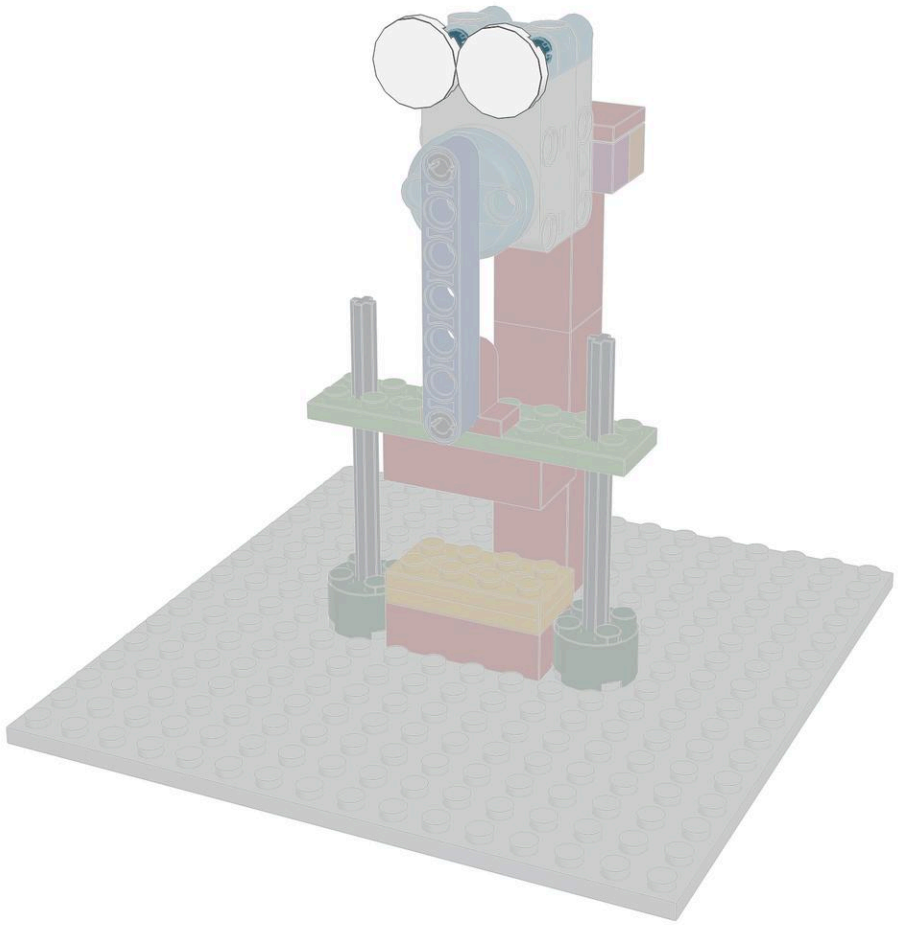
16 the face

Essential

ADD

- 2x Black connector peg (friction) | kit 45345
- 2x White 2x2 round eye tile | kit 45345

Two pegs, two big eyes. The hub is the mouth.



Check: Two big eyes look at you. The hub is the mouth.

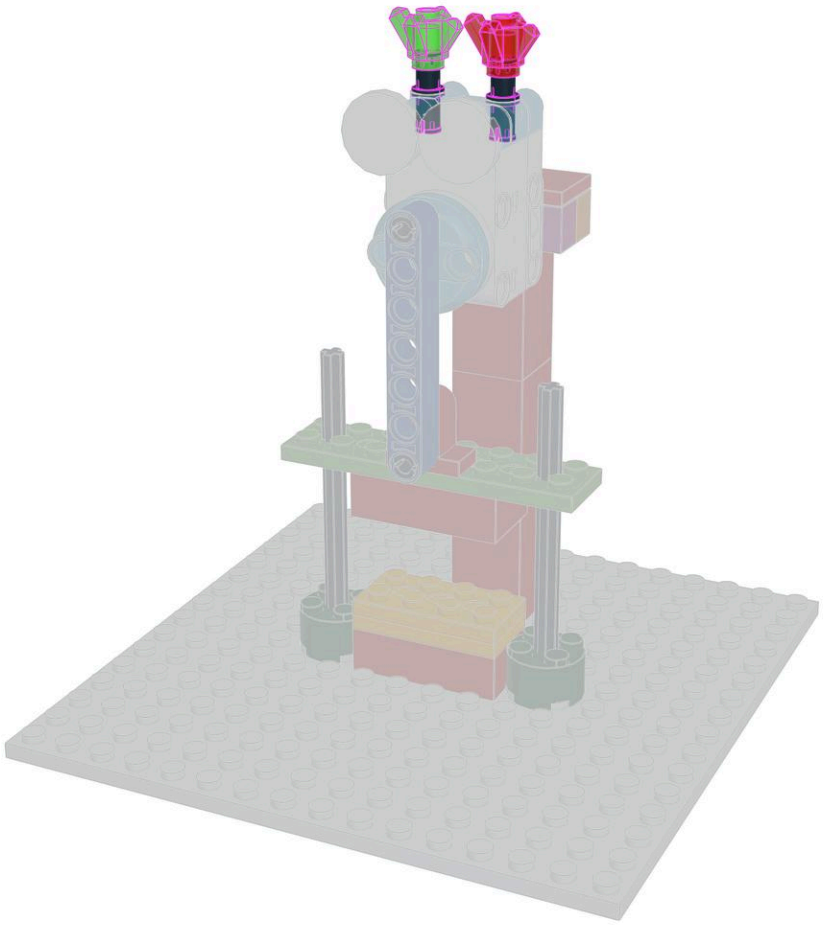
17 the lights

Essential

ADD

- 2x Black connector peg (friction) | kit 45345
- 1x Transparent Red rock crystal | kit 45345
- 1x Transparent Bright Green rock crystal | kit 45345

Red light and green light on top.



Check: Red will mean hot. Green will mean done.

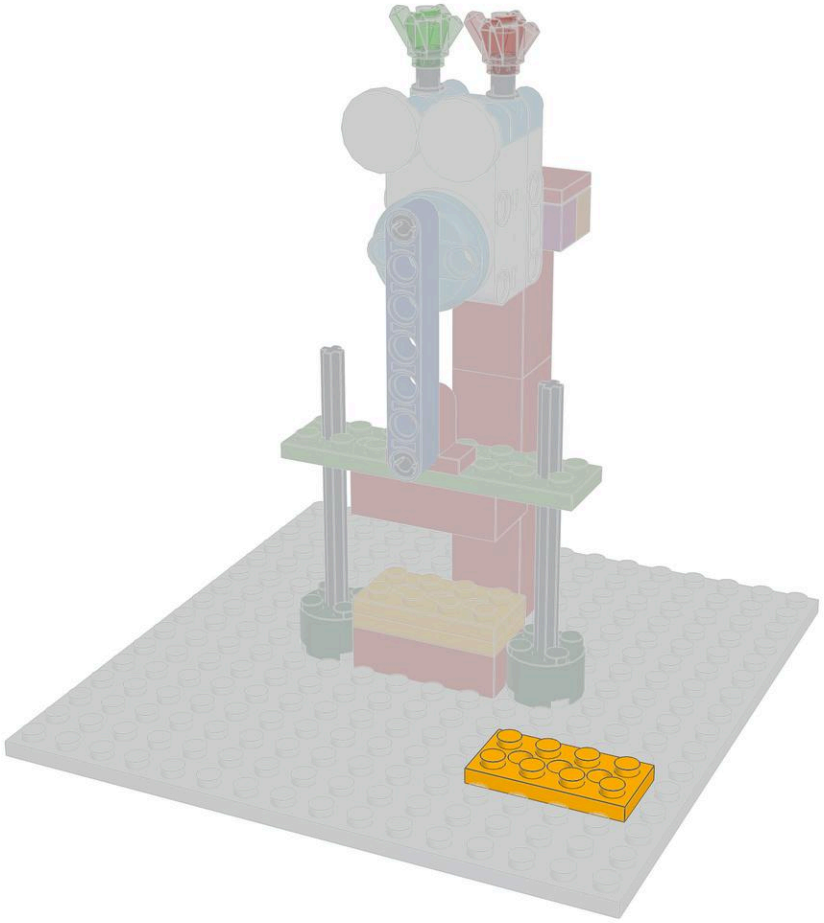
18 the super wood

Essential

ADD

- 1x Flame Yellowish Orange 2x4 plate with holes | kit 45345

One thin plate in front. The super wood.



Check: One plate, half as thick as the old wood. This is the super wood that comes out of the press.

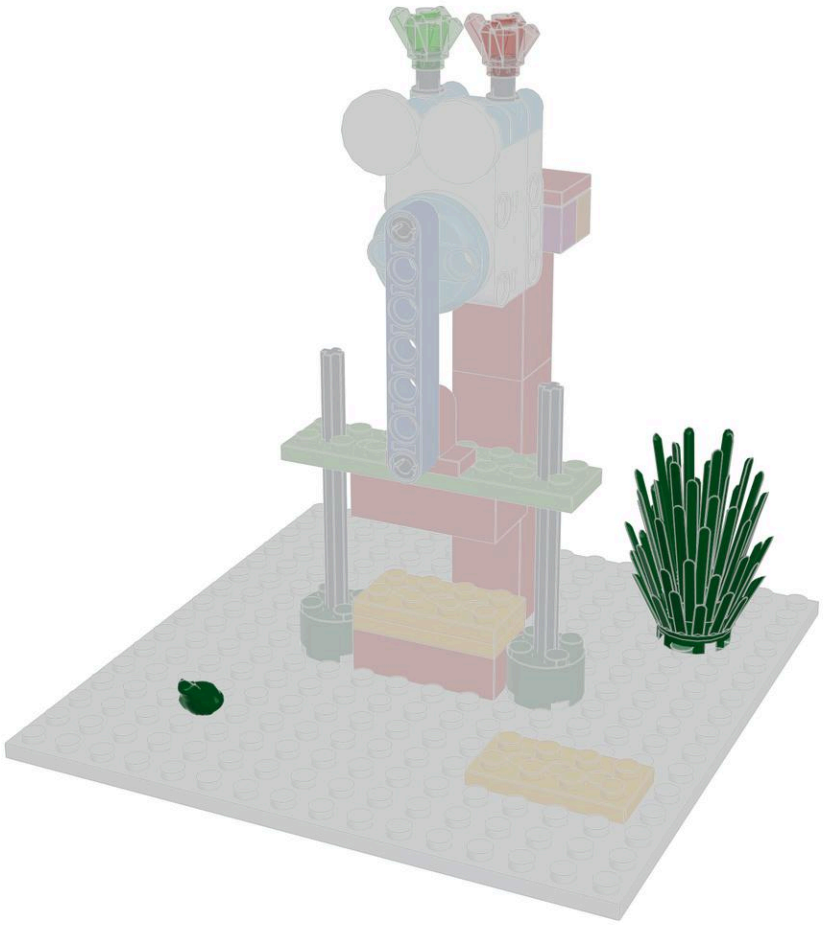
19 a frog and a bush

Essential

ADD

- 1x Dark Green frog | kit 45345
- 1x Dark Green bush | kit 45345

A frog watching. The tree nobody cut.



Check: The bush is the tree nobody had to cut down.

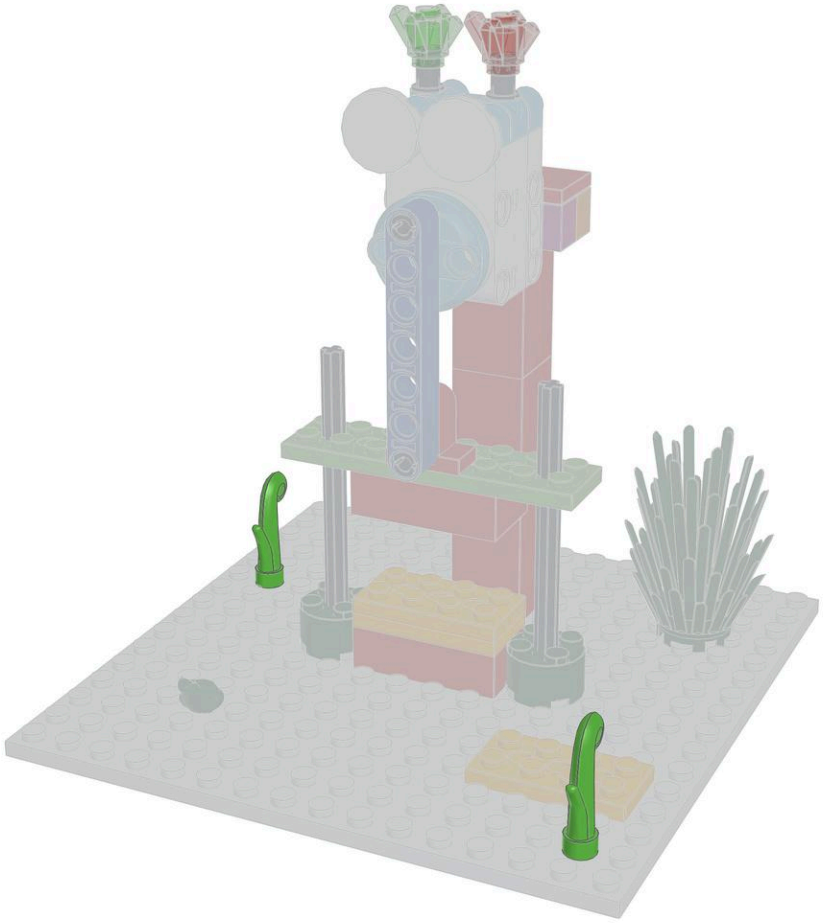
20 the grass

Essential

ADD

- 2x Bright Green grass stem | kit 45345

Two grass stems. A little garden.



Check: The press stands in a little garden.

21 try it by hand

Essential

ADD

- (none)

Turn the hub one whole turn. Down to the wood, and back up.

Turn the motor's hub slowly with your fingers, one whole turn.

Check: The blue beam pushes the green plate down. The red head comes down onto the wood and stops just over it. Then it goes back up. Fingers stay out from under the red head.

22 the program

ADD

- (none -- the Hub and the light matrix stay out of the model)

Matrix on A, motor on B. Red, down, sound, up, green.

Set the yellow Hub beside the press. Plug the motor into port B and the 3x3 light matrix into port A. Stand the matrix in front, lights toward you. Turn the hub until the press is open. Tap the yellow play button.

Check: The matrix turns red, the press comes down on the wood, a sound plays, the press goes back up, and the matrix turns green. Now swap the old wood for the super wood.