

LEGO Ideas Treehouse # 21318 Autumn Lighting Kit

Package contents:

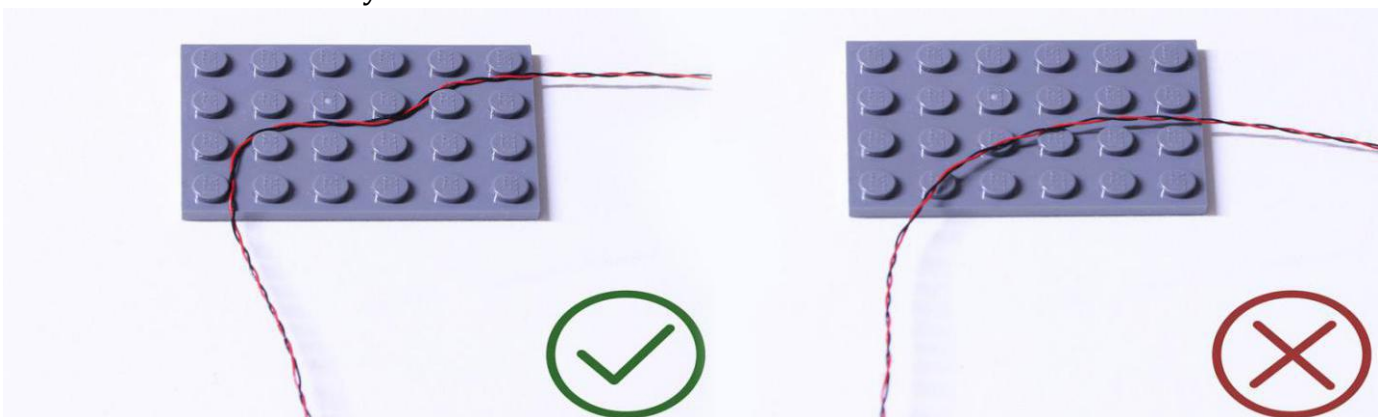
- 5 x 15cm Warm White Dot Lights
- 4 x 30cm Warm White Dot Lights
- 2 x 15cm Warm White Lights
- 6 x Warm White Strip Lights
- 3 x 5cm Connecting Cables
- 7 x 15cm Connecting Cables
- 2 x 30cm Connecting Cables
- 1 x 50cm Connecting Cable
- 1 x 2-port Expansion Board
- 4 x 6-port Expansion Boards
- 1 x 8-port Expansion Board
- 6 x Multi Colour Light Strings
- 1 x Flicker Effects Board
- 1 x USB Cable

Extra LEGO pieces

Note:

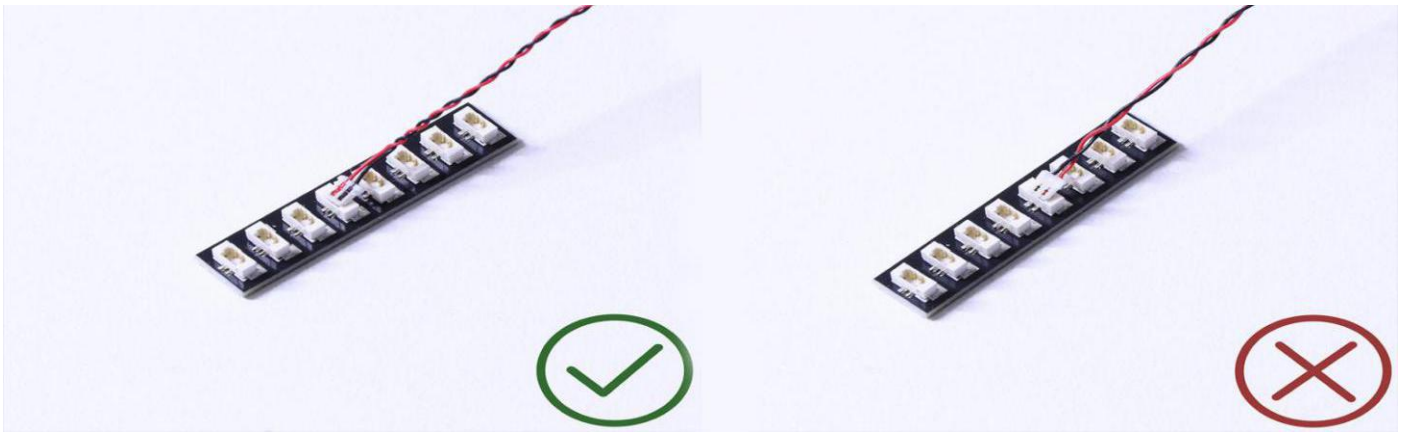
Place wires on the surface or under the LEGO building blocks.

The wire can be placed between the building blocks or under the block, but they should be placed between the studs correctly.

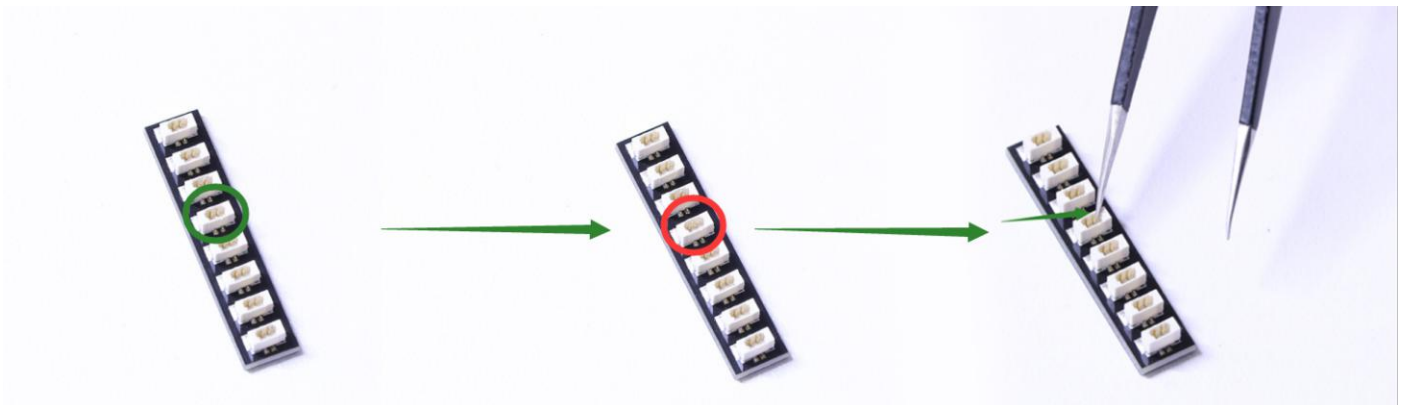


Insert the connectors to the ports.

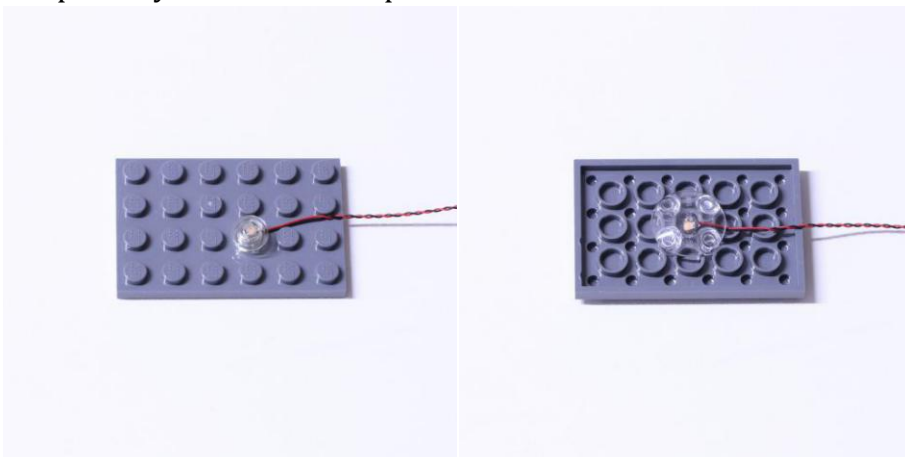
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, and don't force it, for that may result in bent pins inside the port or overheating of the expansion board.



At this point, use the tweezers to straighten the bent pins.

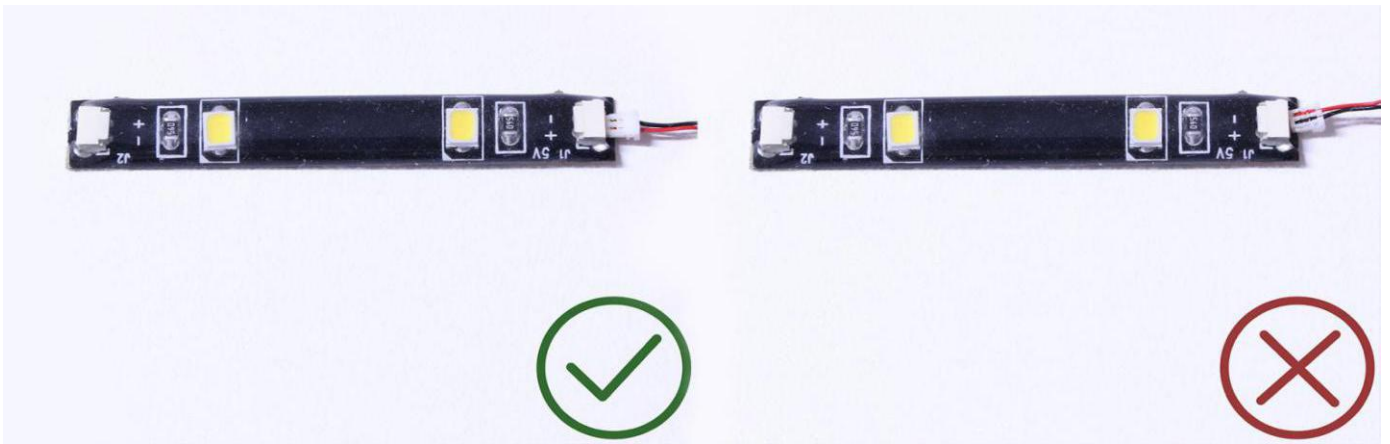


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

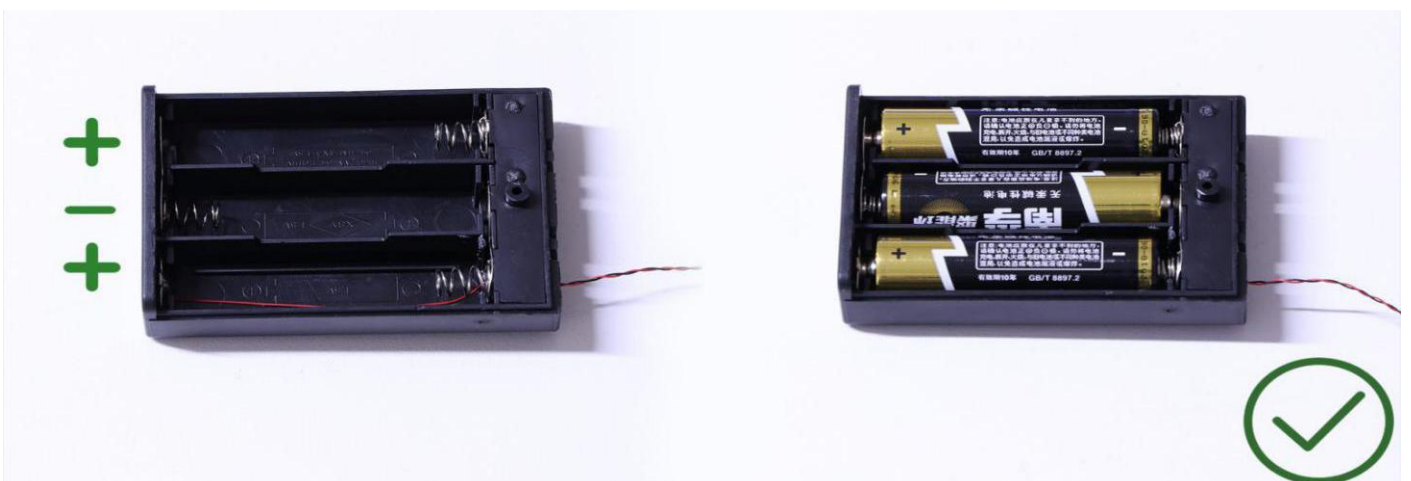


Connecting cable connectors to Strip Lights

Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage the plug and the connector.



Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



Instructions for installing this kit

OK, Let' s Begin! (Note: the difference of the colours between the instruction and the LEGO pieces has no effects on the installation.)

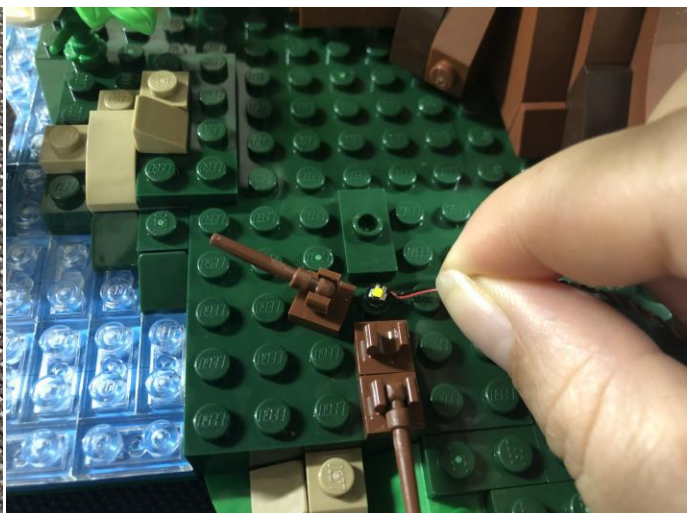
Remove the top of the tree first



Disconnect the following pieces



Take a warm white 30cm dot light, a trans round orange 1x1 piece, with lighting part facing up, place the light at the center of the fire



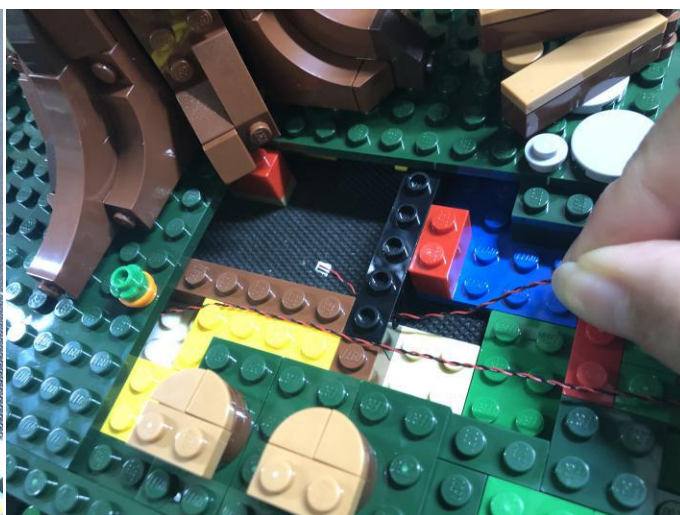
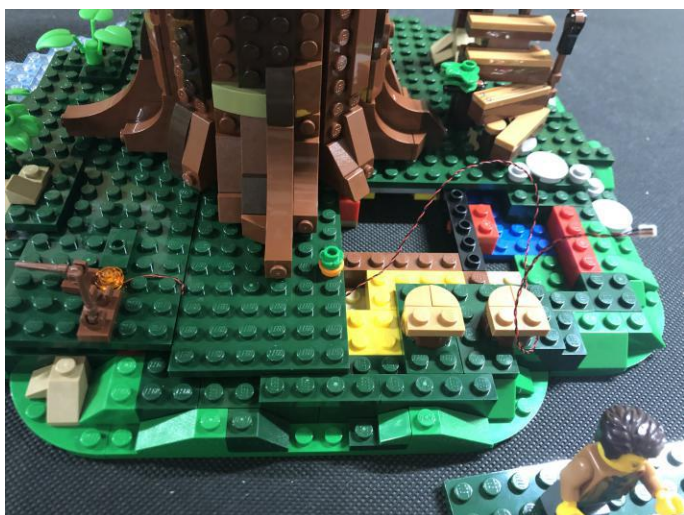
Secure the light with the trans round orange piece



Remove the following pieces, disconnect the 2 base plates



Thread the cable of the fire through the space underneath, then, thread it through the black piece as per below





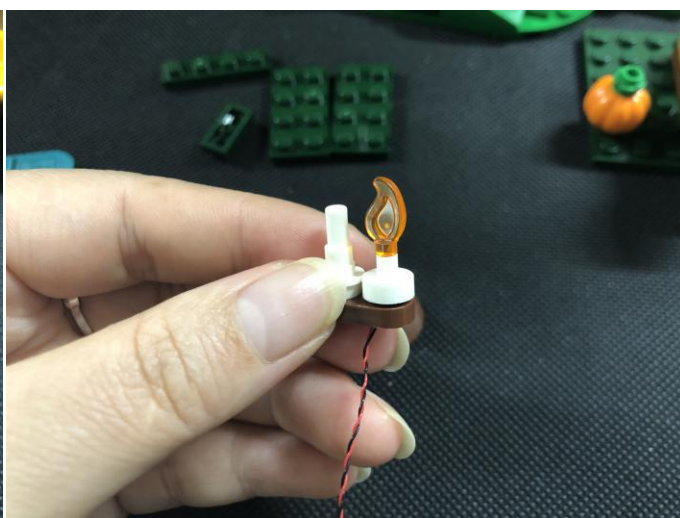
Reconnect the pieces



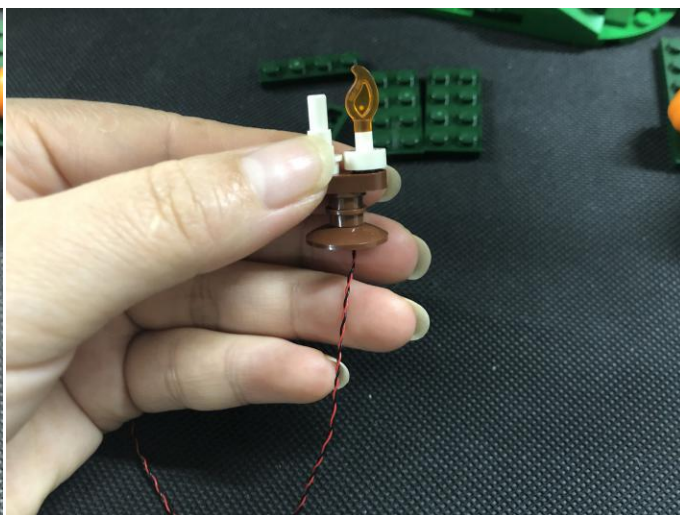
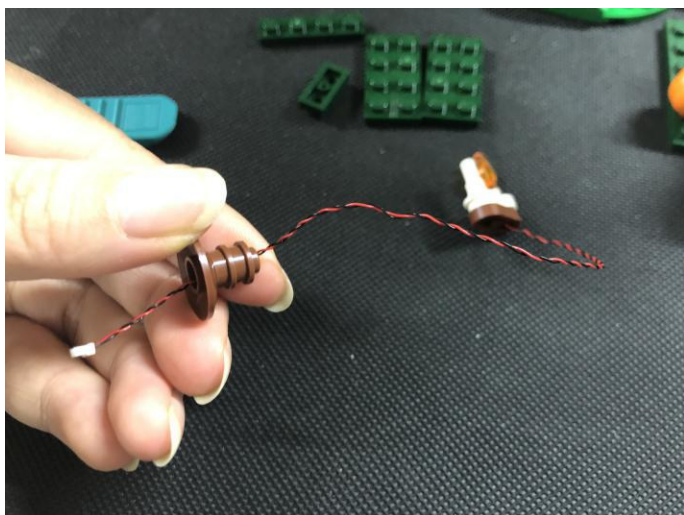
Continue to install lights for the candles on the table



Take a warm white 15cm dot light, thread it through the cable piece as per below, reconnect the flame



Thread the connector through the base, reconnect the base



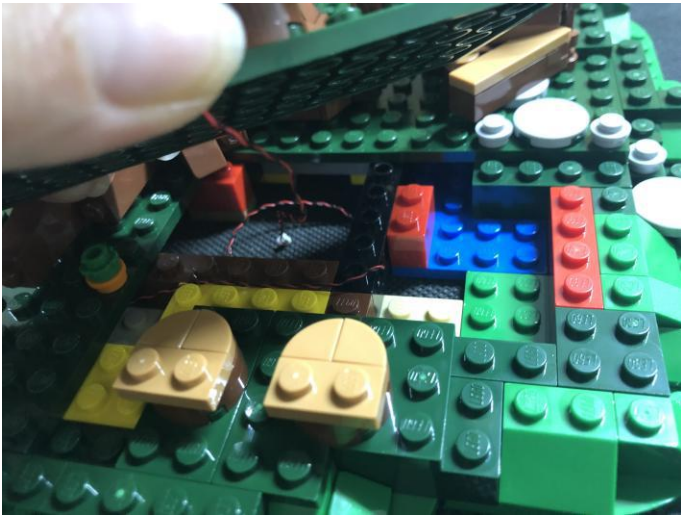
Remove the 1x6 light brown plate, reconnect the candle, secure the cable underneath the plate



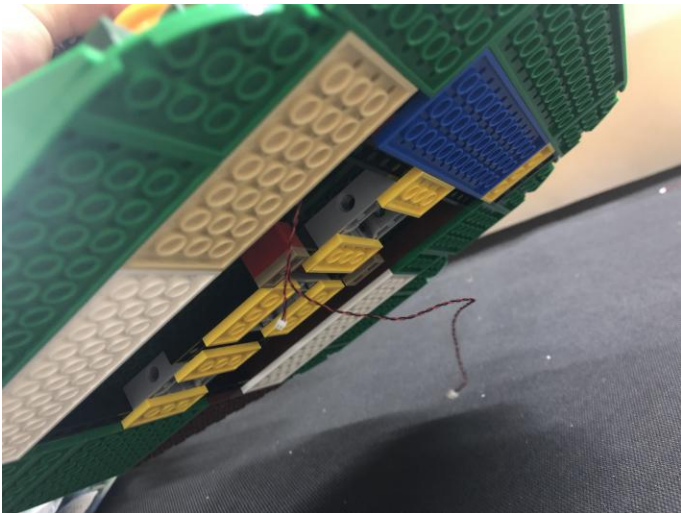
Disconnect the table, thread the cable underneath, reconnect it



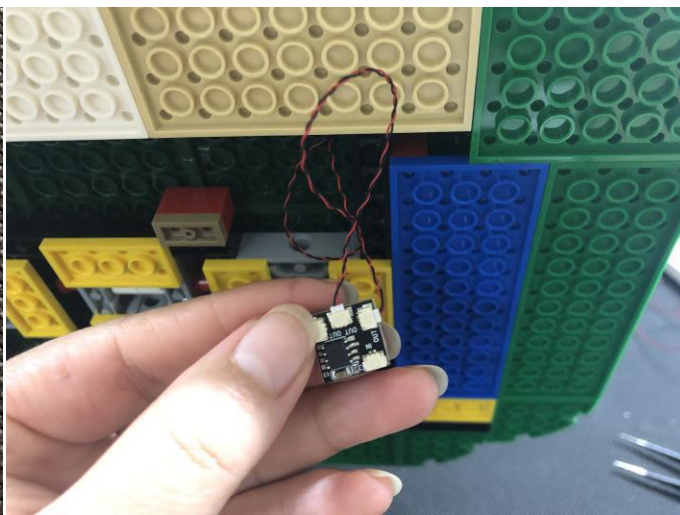
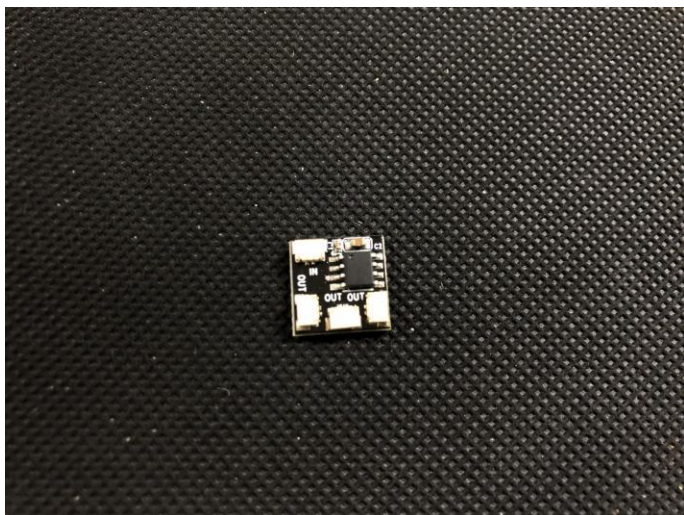
Pull the cable to the bottom of the base plate, reconnect other pieces



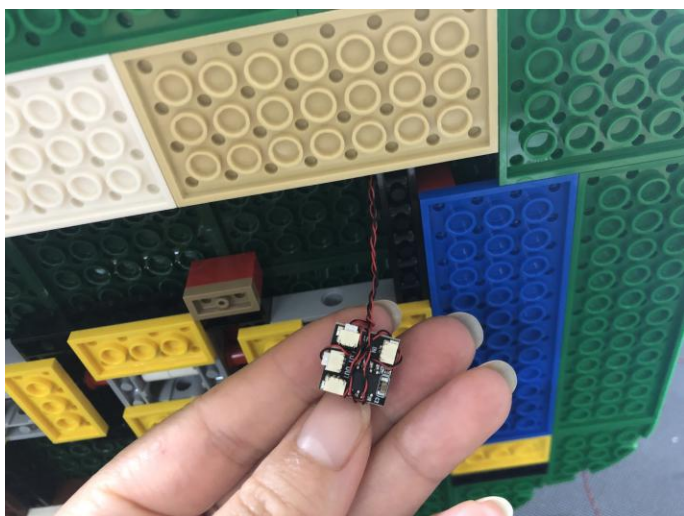
You can see the cables of the lights underneath the base



Take the Flicker Effects Board, connect the cables of the fire and the candle to it



Tuck excess cables around the Flicker Effects Board



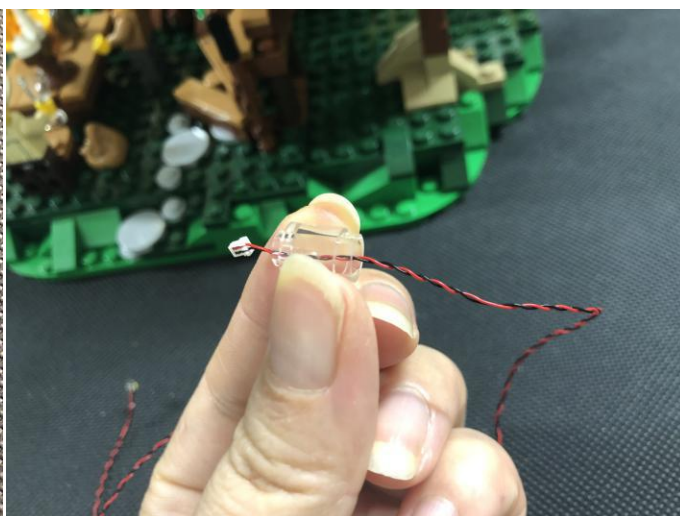
Move onto installing lights for the railing of the stairs



Remove the lampshade and disassemble it as per below



Take a warm white 30cm dot light, thread the light through the trans piece



Reconnect the lamp



Thread the cable of the light through the gap between the stairs, pull it out from the back of the stairs



Remove the third stair

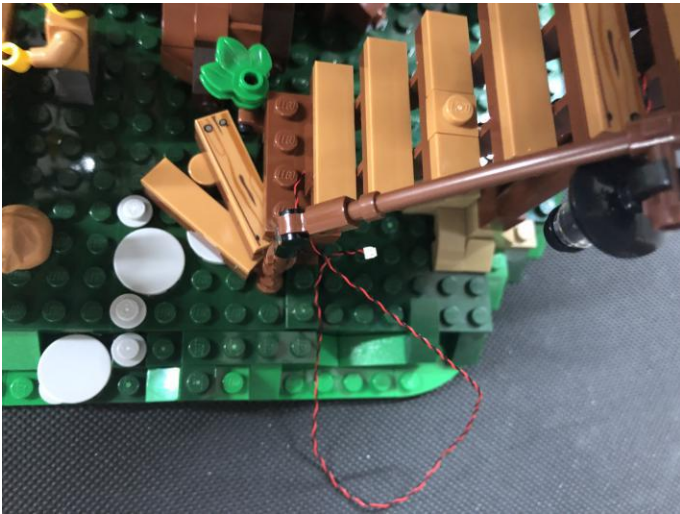


Thread the cable through the following space

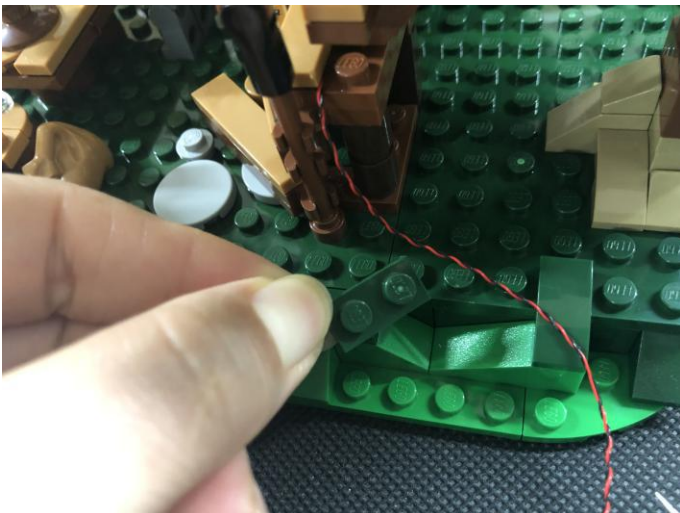




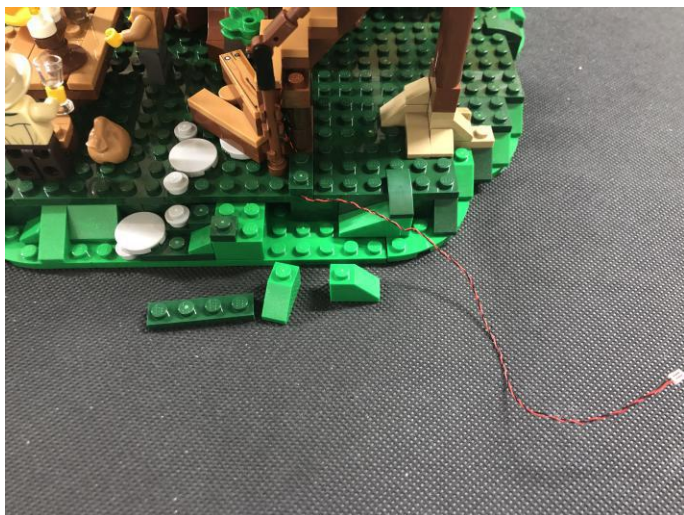
Pull the cable out, reconnect the stair



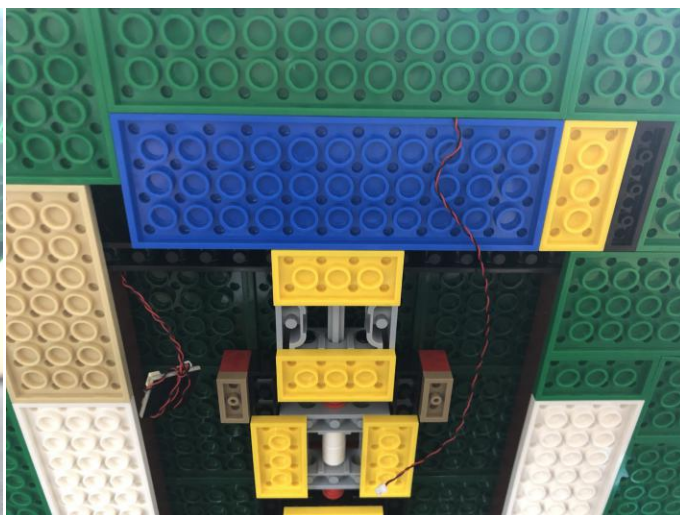
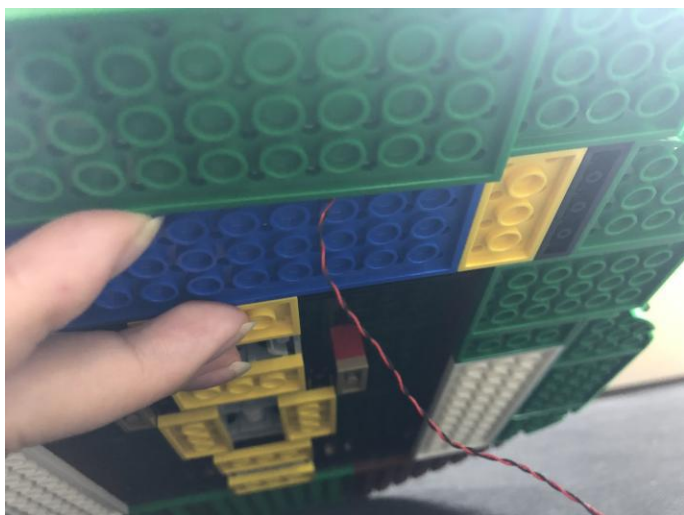
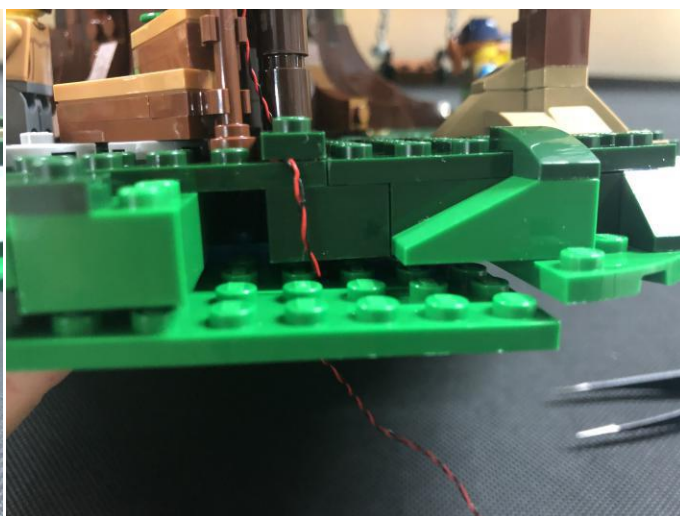
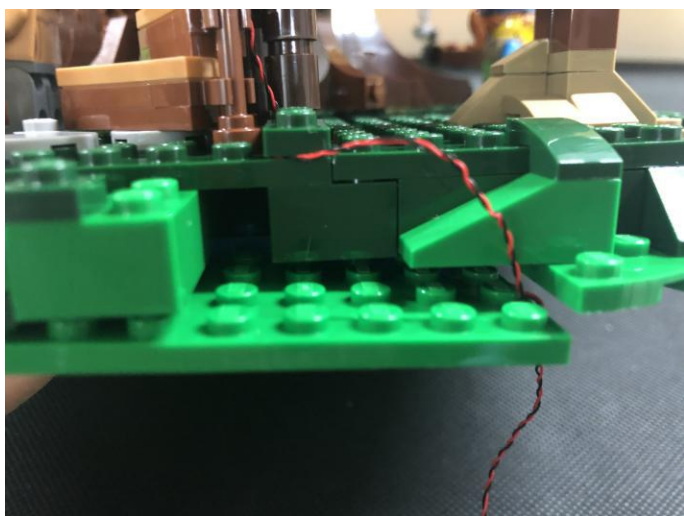
Remove the following 1x2 green plate to secure the cable as per below



Remove the following 1x4 green plate and 2 slope bricks



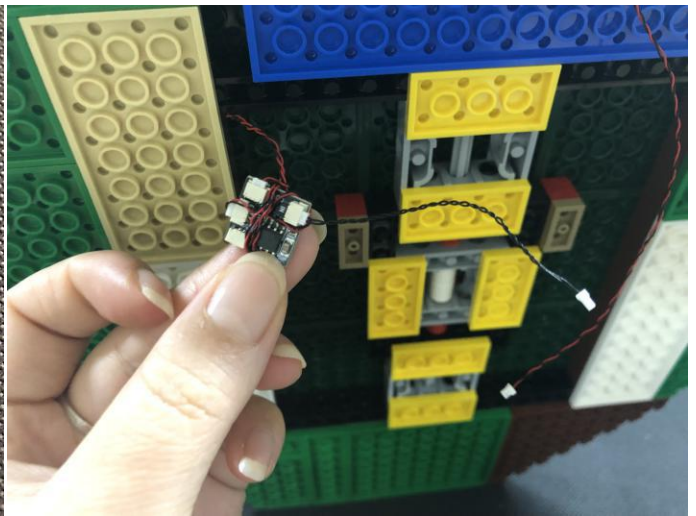
Place the cable as per below



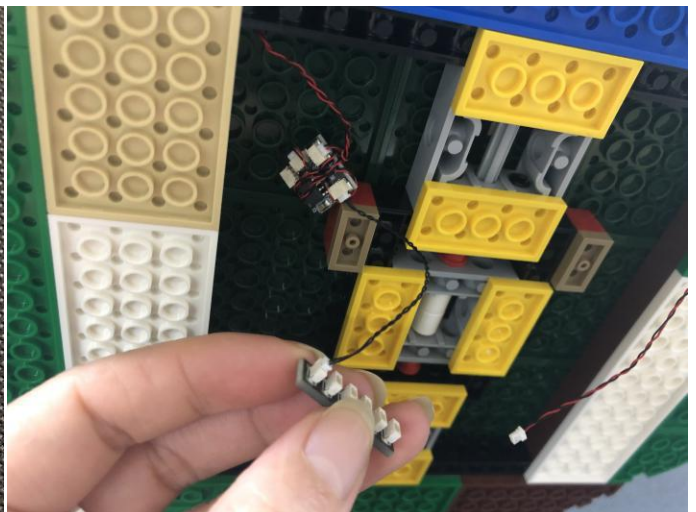
Reconnect the pieces



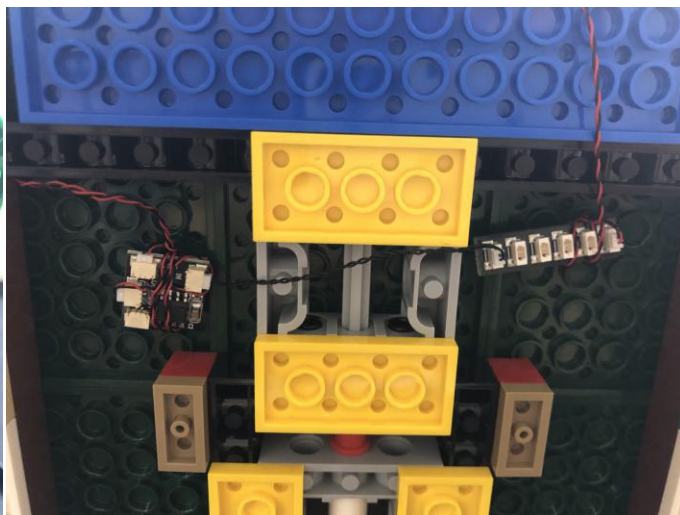
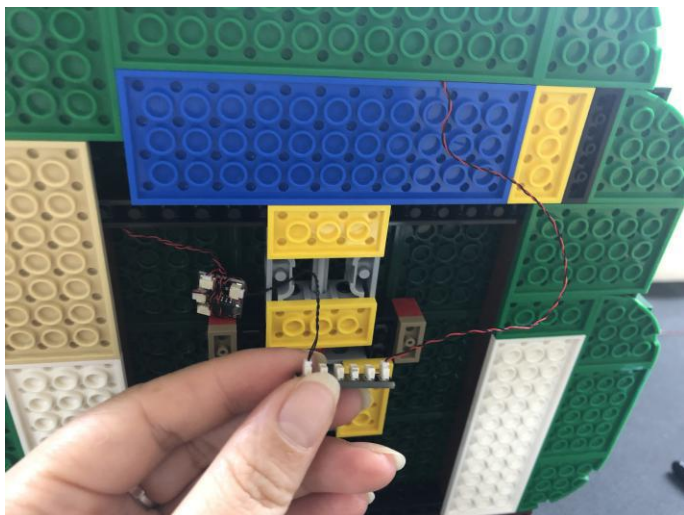
Take a 5cm connecting cable, connect it to the Flicker Effects Board



Take a 6-port expansion board, connect the other end of the 5cm connecting cable to the expansion board



Connect the cable of the lamp to the expansion board, tuck excess cable, stick the Flicker Effects Board and the expansion board to the bottom with adhesive squares



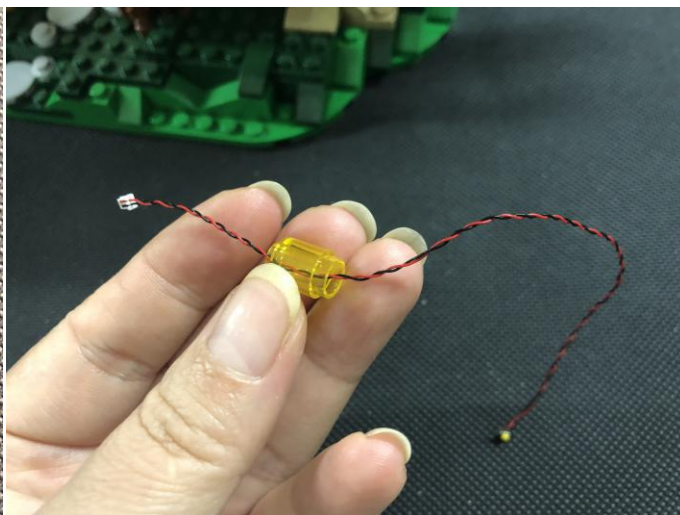
Continue to install lights for the house, remove the lamp in front of the room



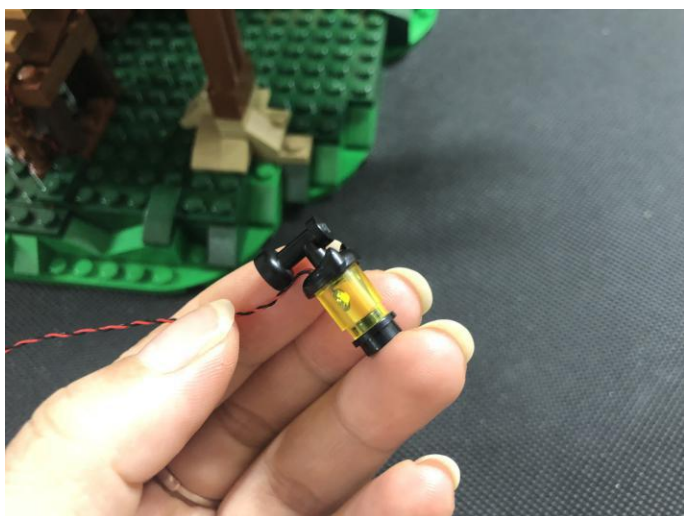
Disassemble the lamp as per below



Take a warm white 15cm dot light, thread the light through the trans yellow piece



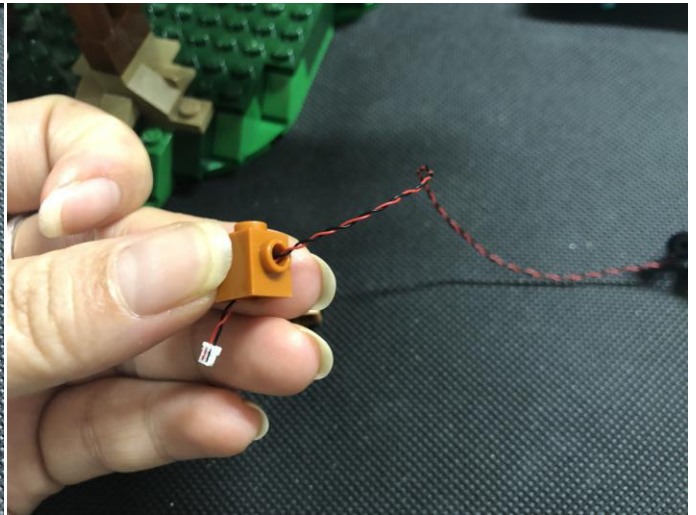
Reconnect the lamp



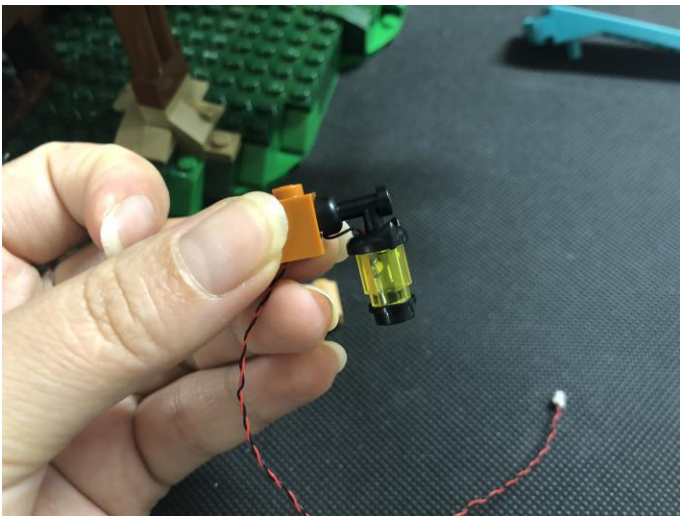
Remove the roof of the room, disconnect the 1x4 piece



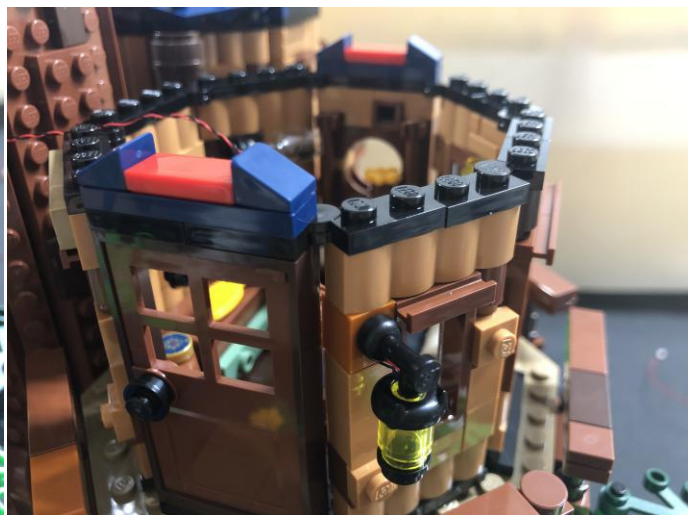
Remove the following piece, thread the light through the orange brick



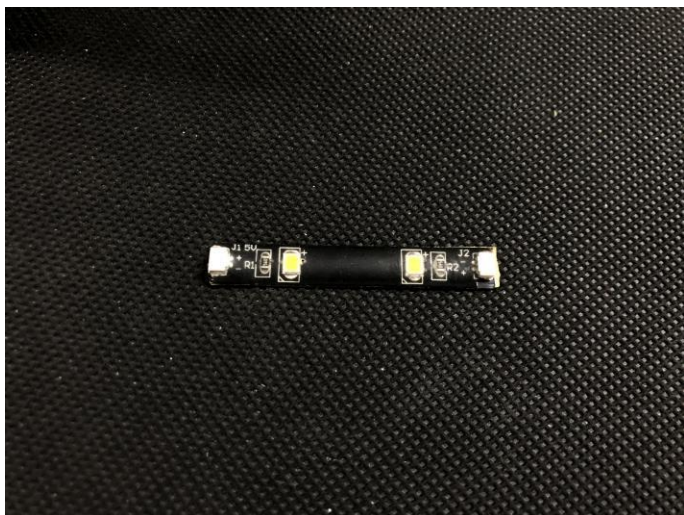
Reconnect the lamp



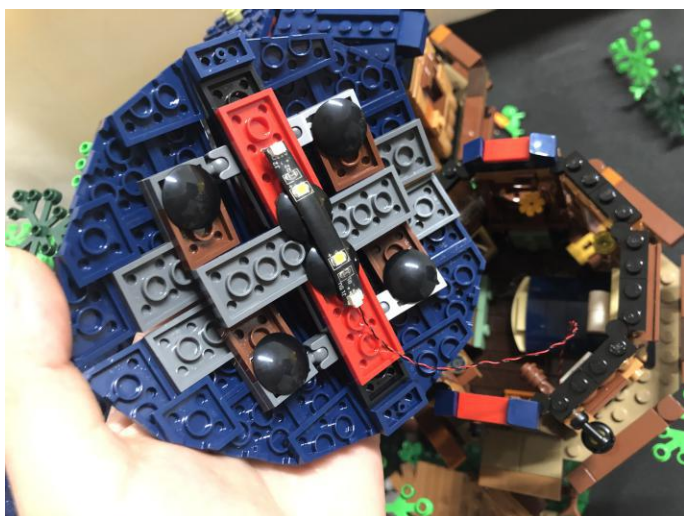
Reconnect the pieces we removed before, pull the cable toward the inside



Take a warm white strip light(striplight#1), connect the cable to the right port of striplight#1



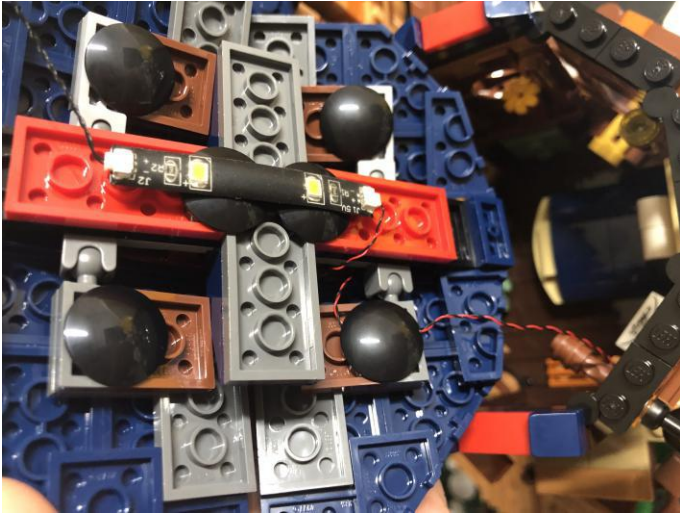
Stick the striplight#1 to the ceiling of the room



Take a 15cm connecting cable, connect it to the other end of the striplight#1



Secure the cable with the following black round piece



Reconnect the roof, pull the cable out as per below



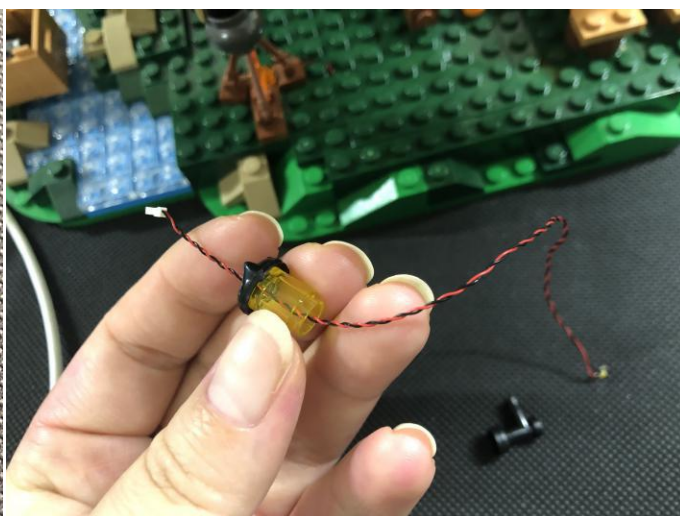
Remove the roof of the bathroom, thread the cable through, secure the cable with the 1x4 black piece



Remove the lamp from the outside of the bathroom



Take a warm white 15cm dot light, thread the light through the trans yellow lampshade



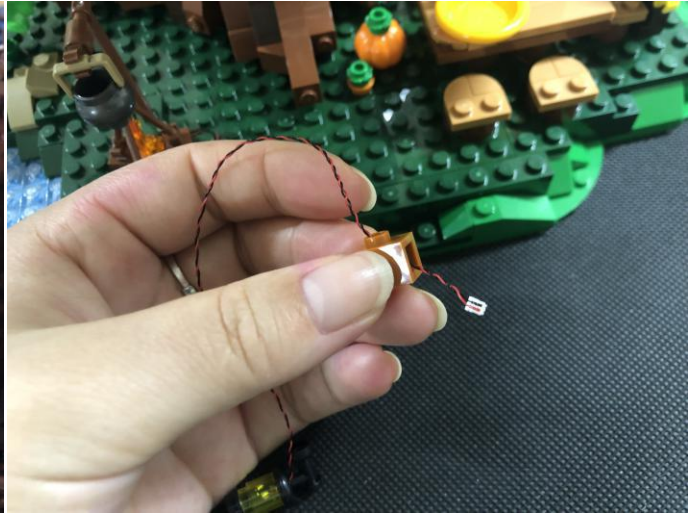
Reconnect the lamp



Remove the following piece, place the cable of the light as per below



Reconnect the lamp



Reconnect the pieces we removed before



Take a 6-port expansion board, secure the excess cables with the following black pieces



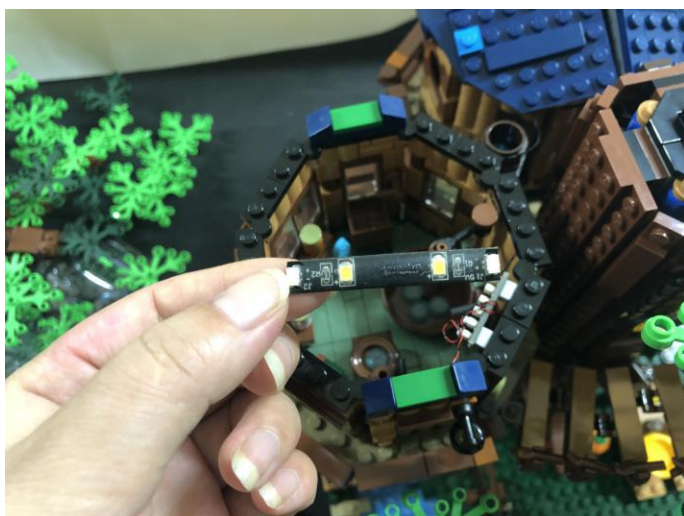
Remove the following piece to help to hide the cable, connect the cables to the expansion board



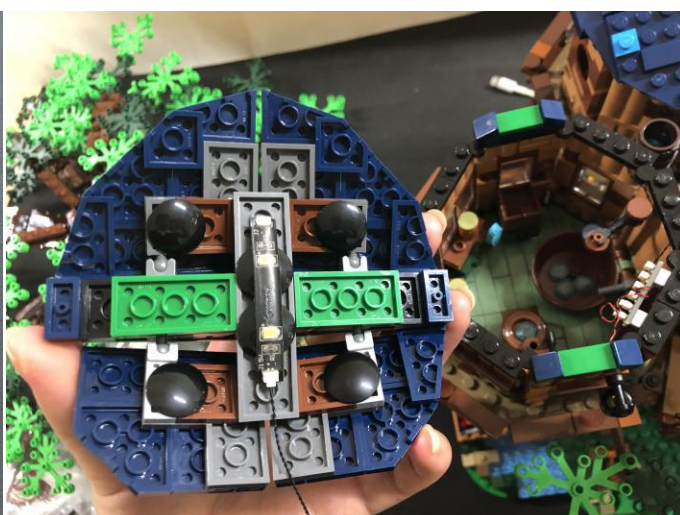
Stick the expansion board to the following position with adhesive square



Take a warm white strip light(striplight#2), a 5cm connecting cable



Connect the connecting cable to the right port of the strip light, stick the strip light to the ceiling of the bathroom



Connect the cable from the strip light to the expansion board



Take a 30cm connecting cable, connect it to the expansion board at the bathroom



Pull the cable toward the children' s room



Remove the following piece to secure the cable



Remove the roof of the children' s room



Remove the following pieces beside the bed



Reconnect the following plate and the light brown plate to secure the cable



Place the cable as per below, reconnect the blue part



Move onto installing light at the front of the door, remove the lamp and disconnect it



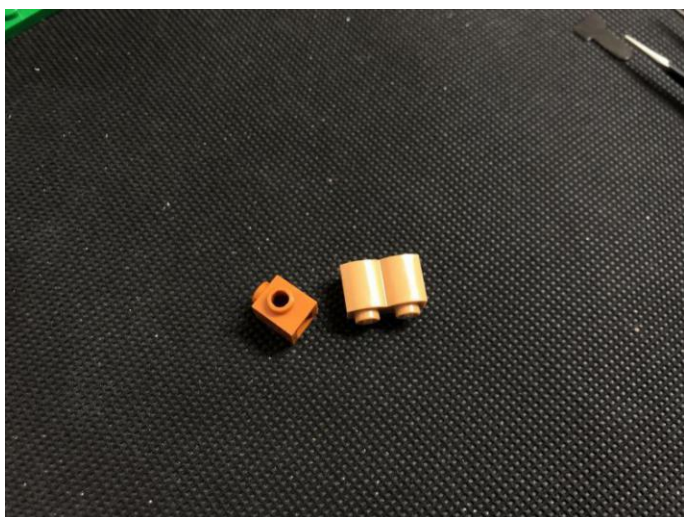
Take a warm white 15cm dot light, thread the light through the trans yellow lampshade



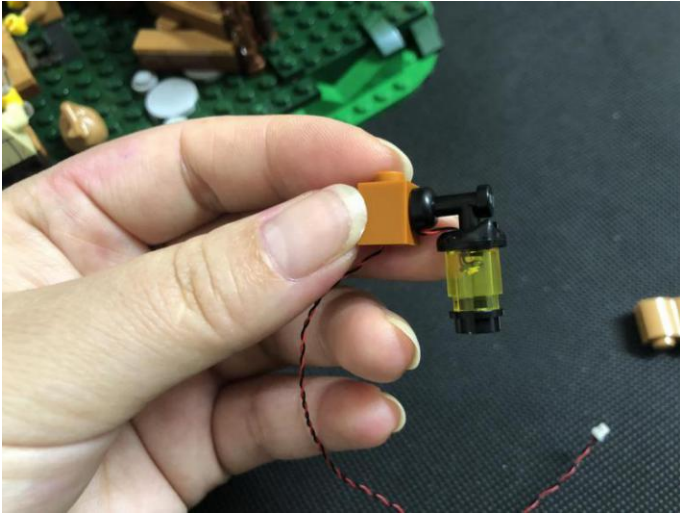
Reconnect the lamp



Remove the following 2 pieces, thread the connector of the light through the orange piece



Reconnect the lamp



Reconnect the pieces we removed, pull the cable toward the inside, wind it on the following piece, secure the cable with the following piece



Take a warm white strip light (striplight#3), connect the cable from the bathroom to the right port of the strip light



Stick the striplight#3 to the ceiling of the children's room, secure the cable with the round black piece



Reconnect the roof



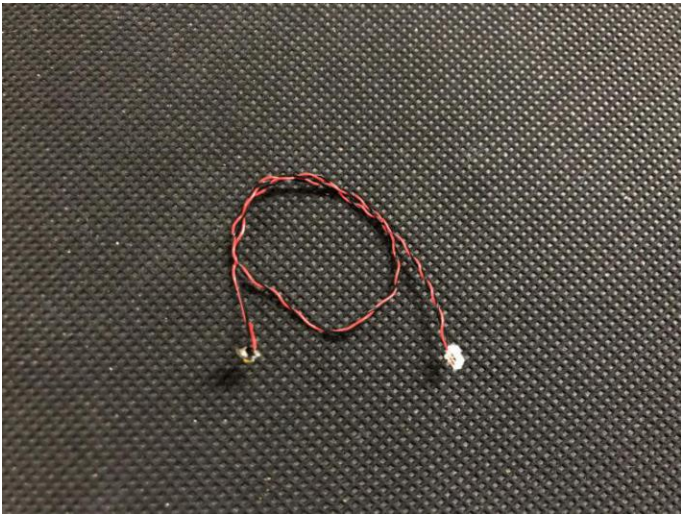
Now, we' ll install lights for the tree. Start from the one beside the swing. Remove the leaf and the lamp



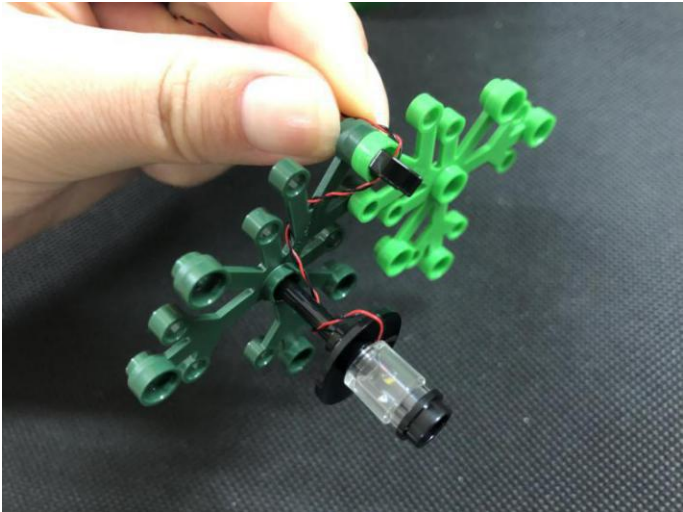
Disassemble them as per below



Take a warm white 15cm dot light, thread the light through the following piece



Wind the cable around the lamppost and the leaf



Reconnect the pieces we removed before, wind the cable around the branch as per below



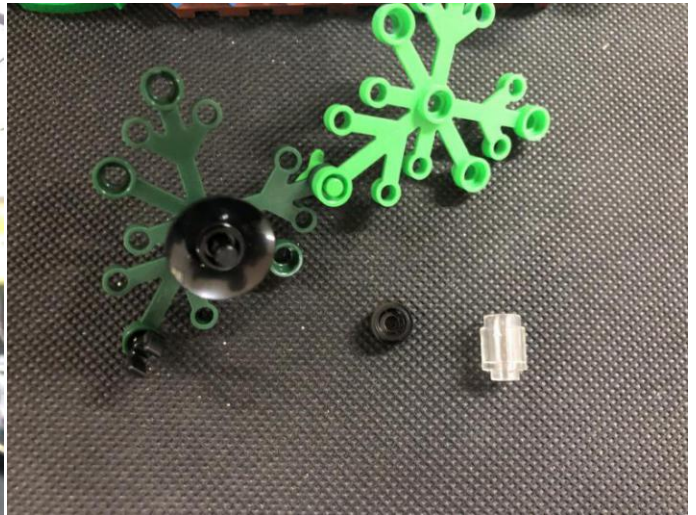
Take a 6-port expansion board, connect the cable of the light to it



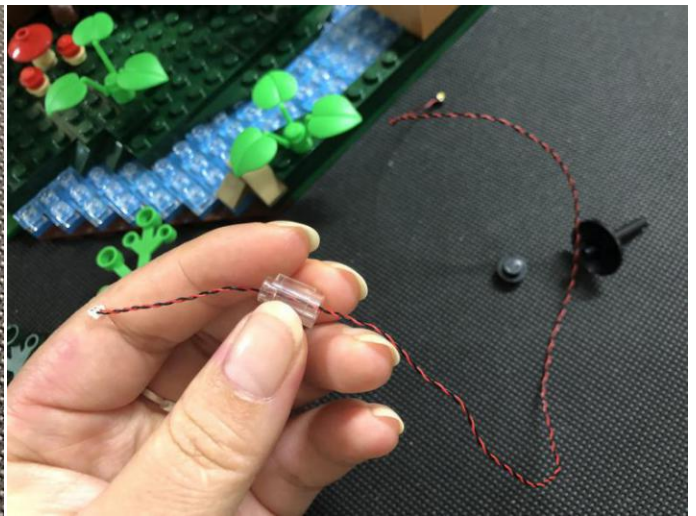
Stick the expansion board underneath the house with adhesive squares



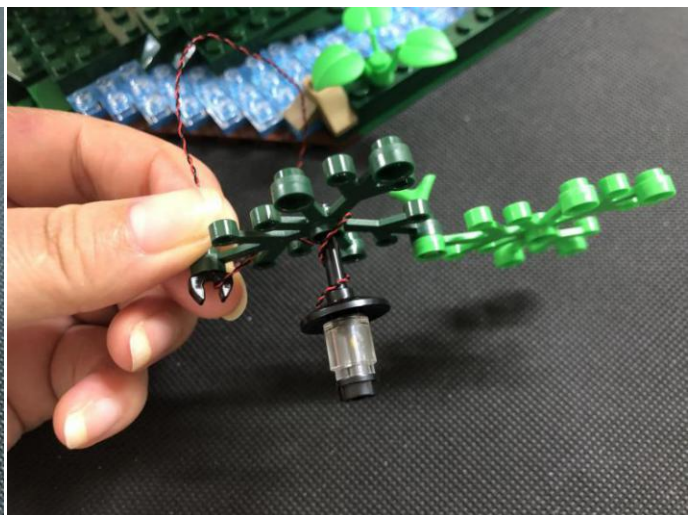
Continue to install light outside the bathroom. Remove the following pieces



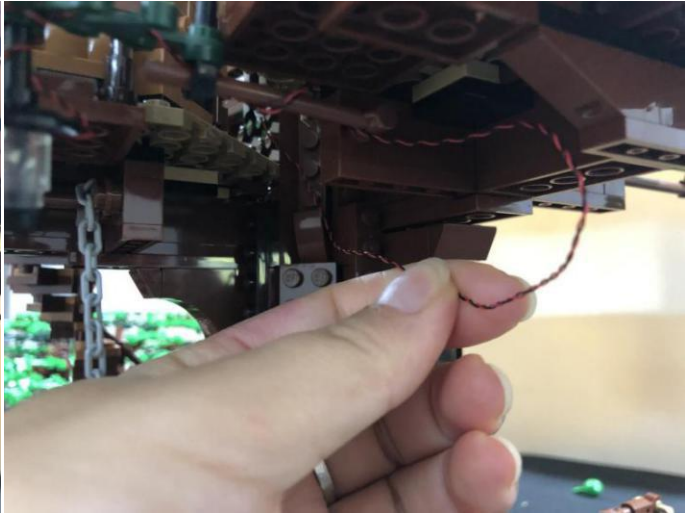
Take a warm white 30cm dot light, thread the connector through the following piece



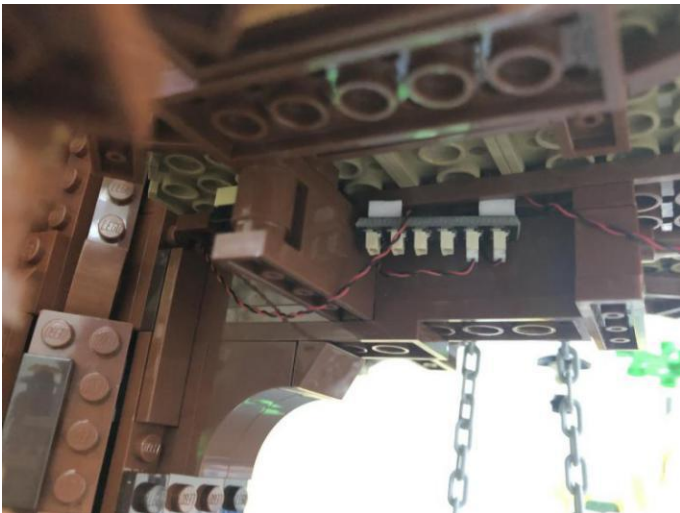
Reconnect the lampshade, wind the cable around the lamp post and the leaf



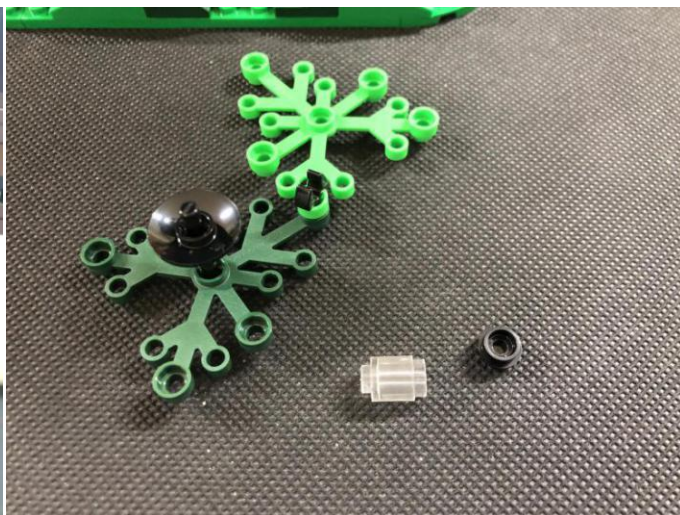
Reconnect the piece, wind the cable around the branches, place it as per below



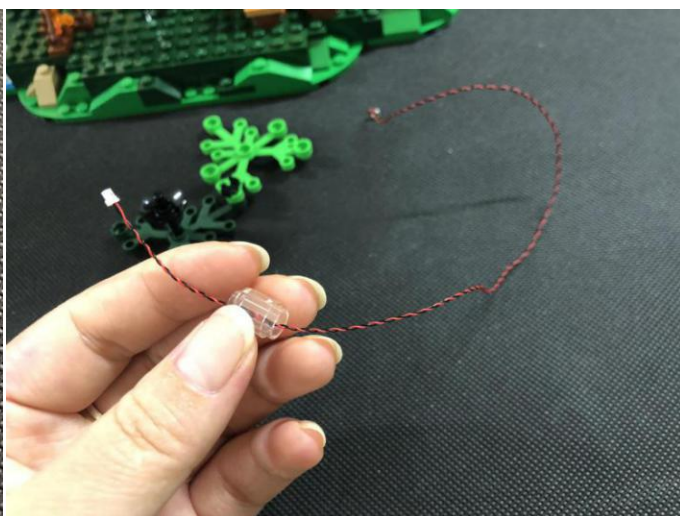
Connect the cable to the expansion board



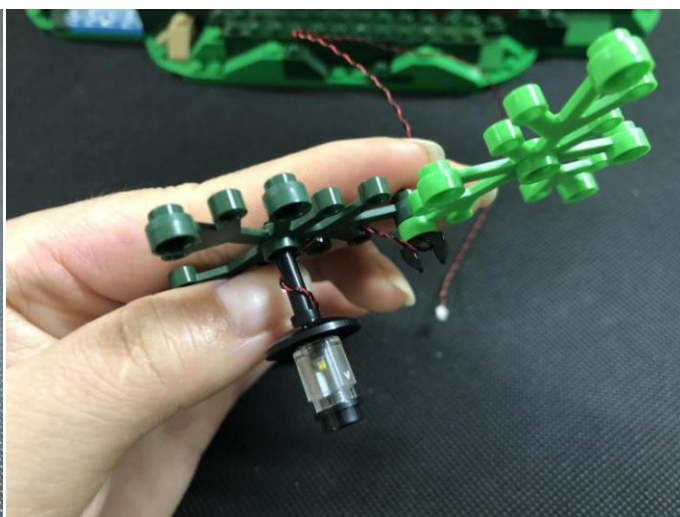
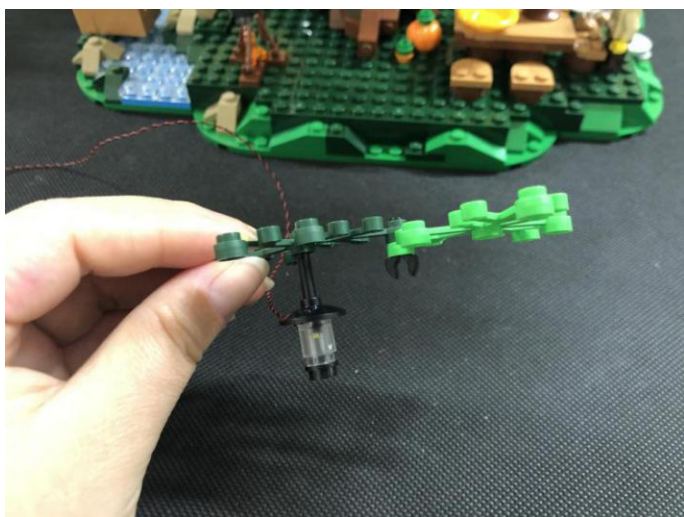
Then, we' ll install light for the hanging lamp beside the fence. Remove the following pieces



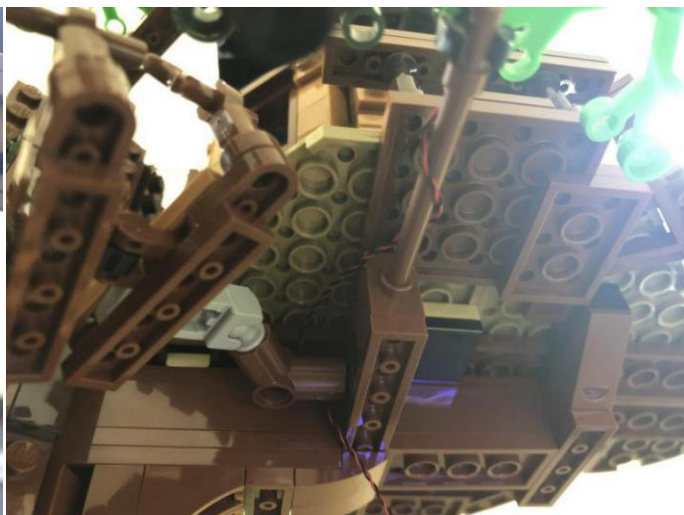
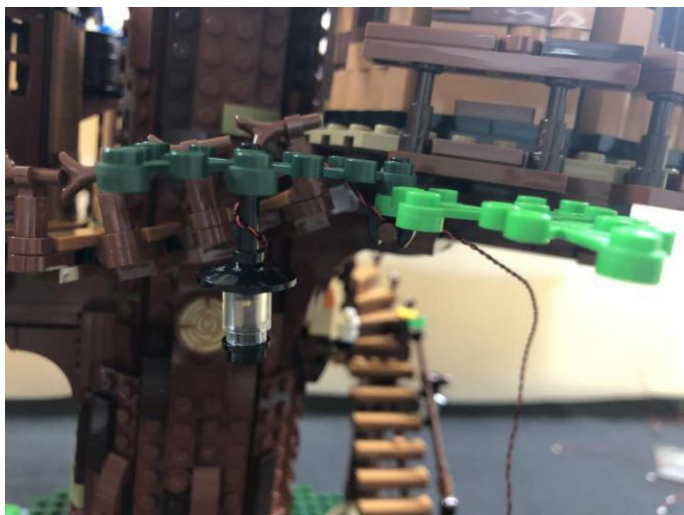
Take a warm white 30cm dot light, thread it through the following piece



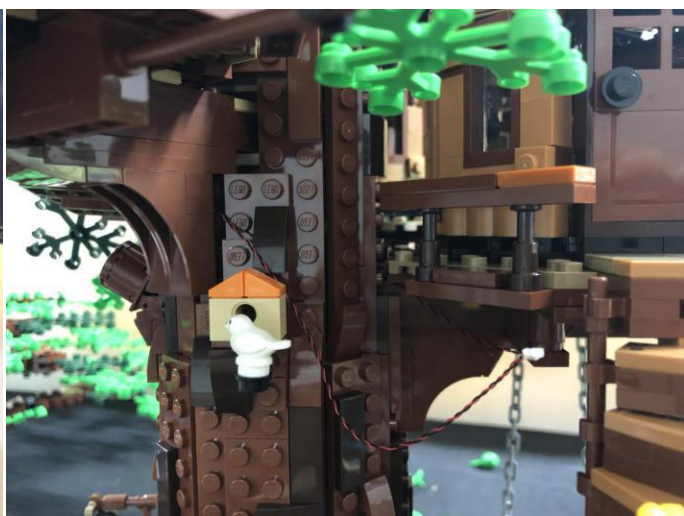
Reconnect the lamp, wind the cable around the lamp post and the leaf



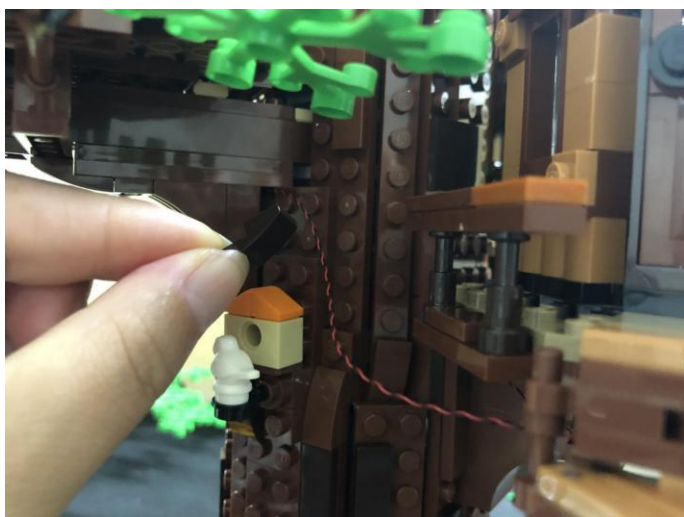
Reconnect the piece, wind the cable around the branches



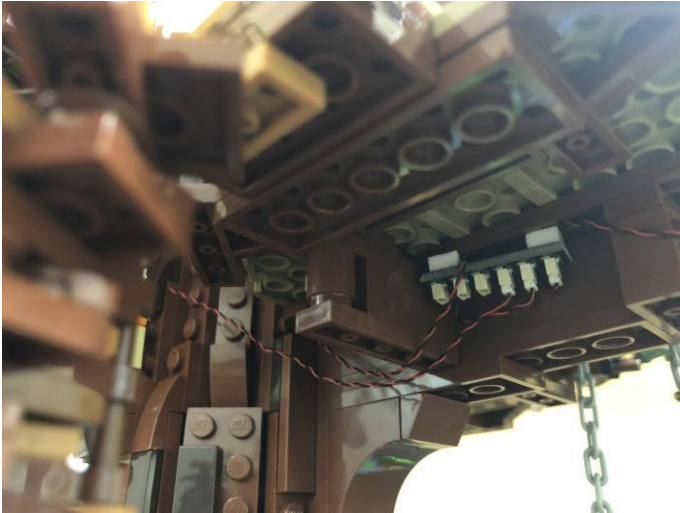
Thread the cable through the following space, pull it out beside the nest



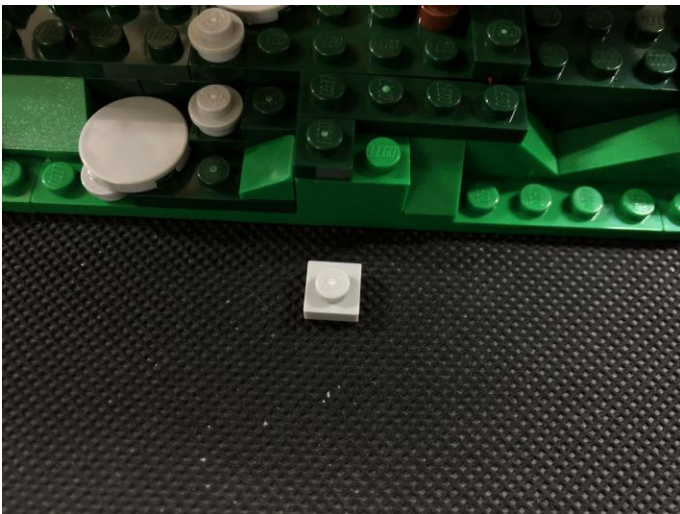
Remove the brown piece at the back of the nest to secure the cable



Connect the cable to the expansion board



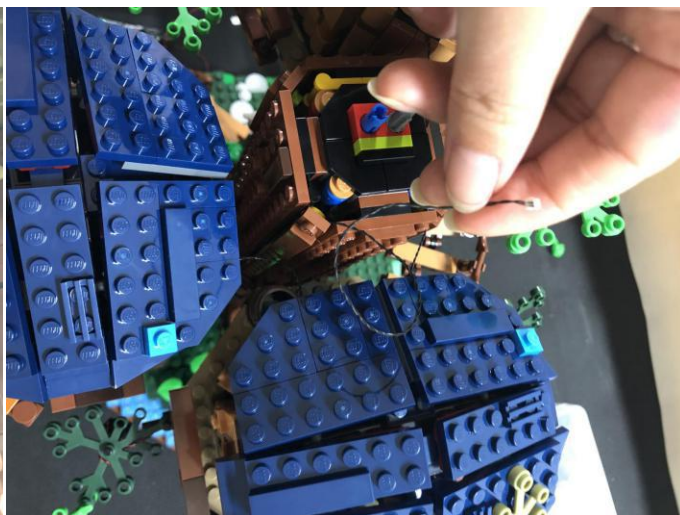
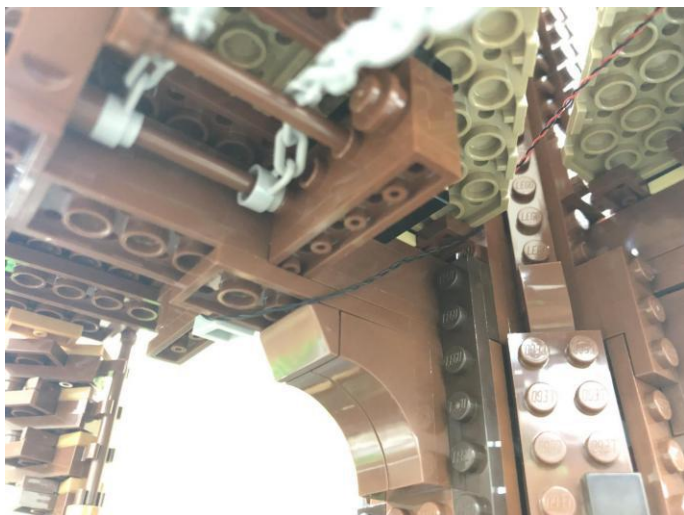
Take a 1x1 plate, to secure the following 2 cables



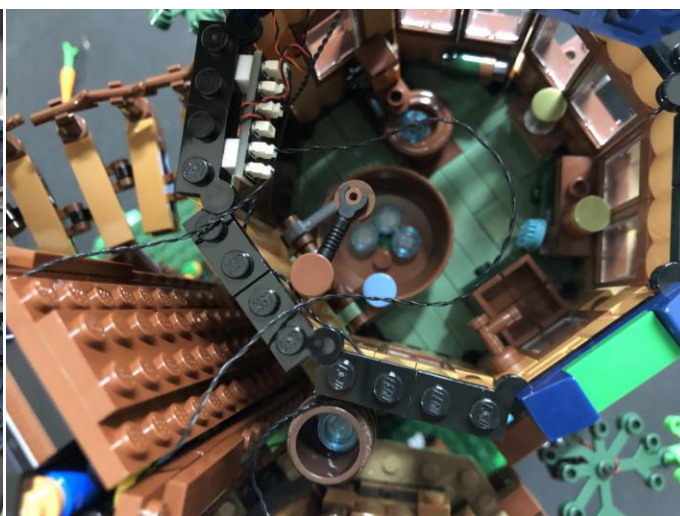
Take a 50cm connecting cable, connect it to the expansion board



Pull the cable up from the bottom



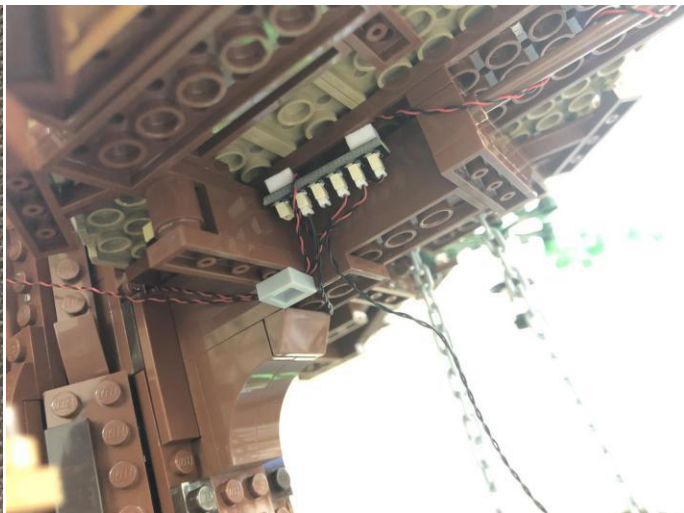
Pull the cable toward the bathroom, connect it to the expansion board inside the bathroom



Reconnect the roof of the bathroom



Take a 30cm connecting cable, connect it to the expansion board underneath



Remove the following piece to secure the cable



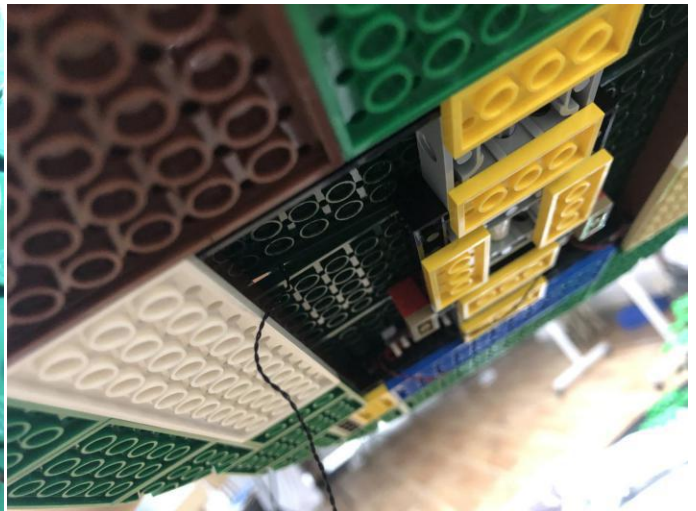
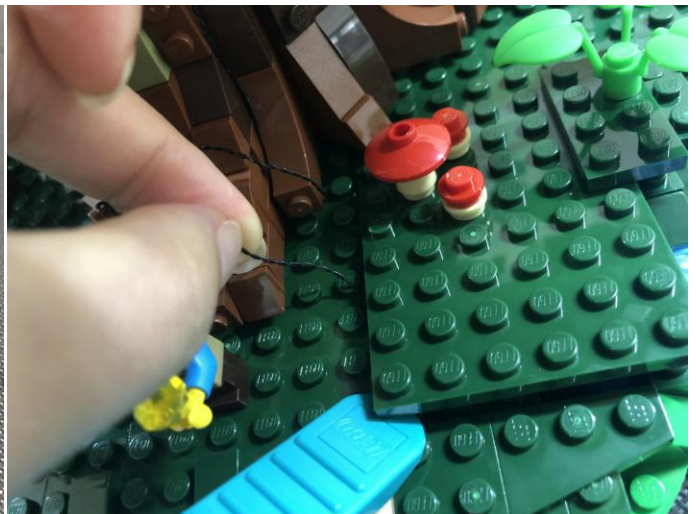
Remove the following 1x2 piece, place the cable underneath, reconnect the piece



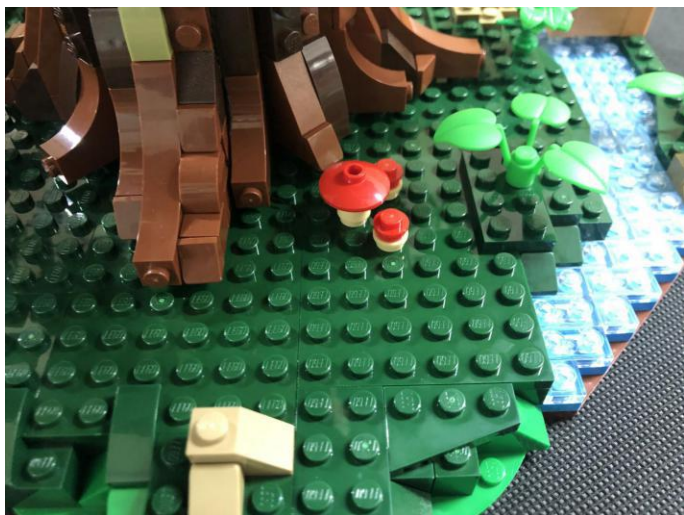
Continue to remove the following piece to secure the cable



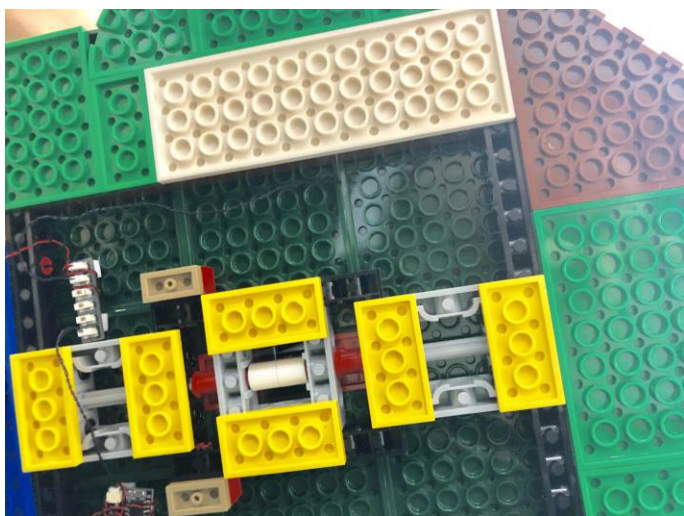
Lift the following piece to thread the cable through and pull it out from the bottom



Reconnect the piece we lifted



Connect the connecting cable to the expansion board underneath



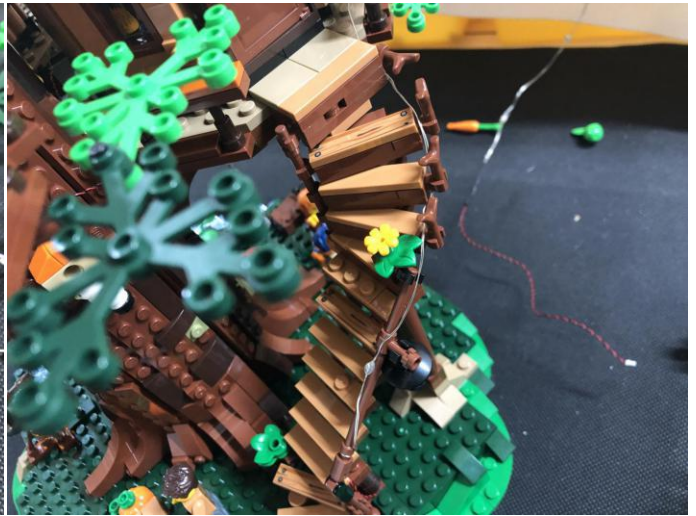
You can turn the power on to test the current



Now, we' ll continue to install lights for the stairs and the railings
Take 2 Multi Colour Light Strings



Take one of the Multi Colour Light String (lightstring#1), wind the string around the railing as per below





After finishing winding the first string, place the rest of the cable as per below



Take another Multi Colour Light String (lightstring#2), start from the right railing outside the bathroom, wind the string as per below



Wind the string around the railing till the end of the string



Wind the cable downward around the post



Take a 6-port expansion board



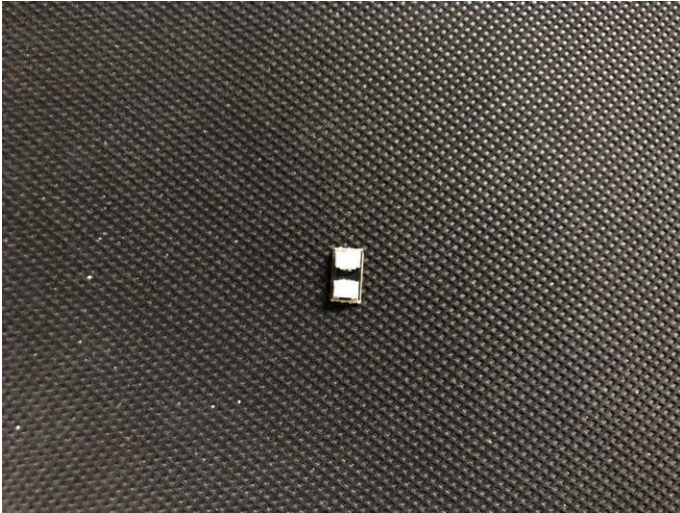
Place the lightstring#1 as per below before connecting it to the expansion board



Stick the expansion board to the following place with adhesive squares



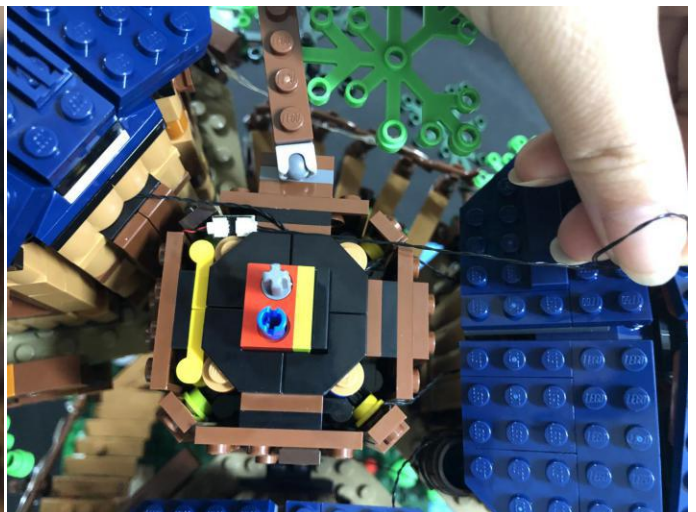
Take a 2-port expansion board, connect the lightstring#2 to it



Take a 15cm connecting cable, connect it to the 2-port expansion board



Pull the cable up from the back of the house, then, connect it to the expansion board inside the bathroom

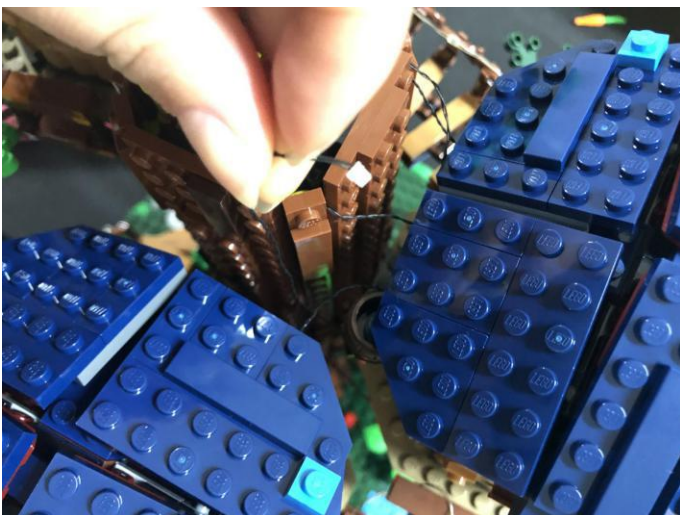




Take another 15cm connecting cable, connect it to the expansion board which connected to lightstring#1



Pull the cable upward, remove the roof of the bathroom, connect it to the expansion board inside the bathroom



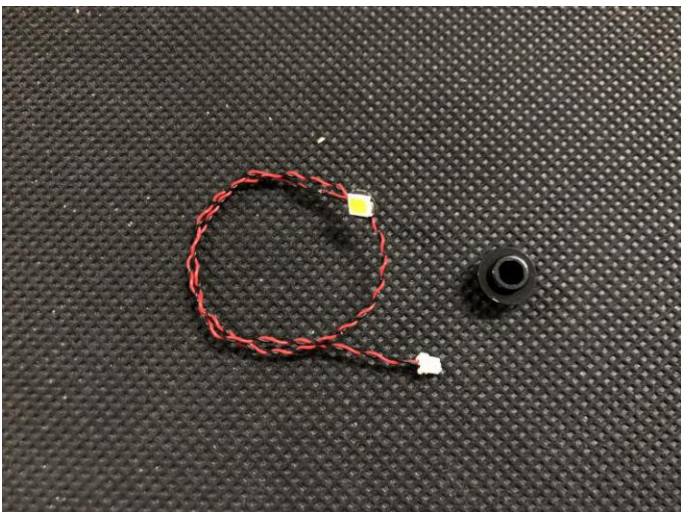
Reconnect the roof



Disconnect the top of the tree



Take a warm white 15cm light, a 1x1 round plate



Thread the light through the round plate, connect the light to the top of the trunk, pull the cable downward



Take a warm white 15cm light, a 1x1 round plate, repeat the steps above to install another light

Take 4 Multi Colour Light Strings

Now, we' ll install the 4 Multi Colour Light Strings to the tree, start with winding them around the leaves



Place the Multi Colour Light Strings around the leaves



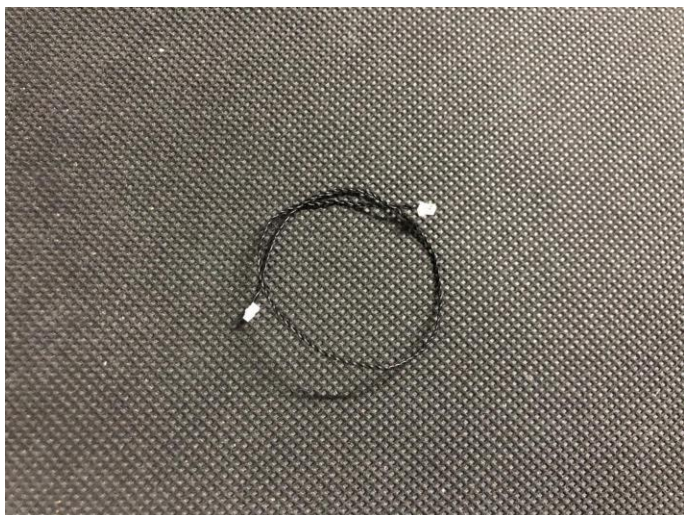
pull all the cables down



Take a 8-port expansion board, connect all the cables of the lights to it, stick it to the trunk



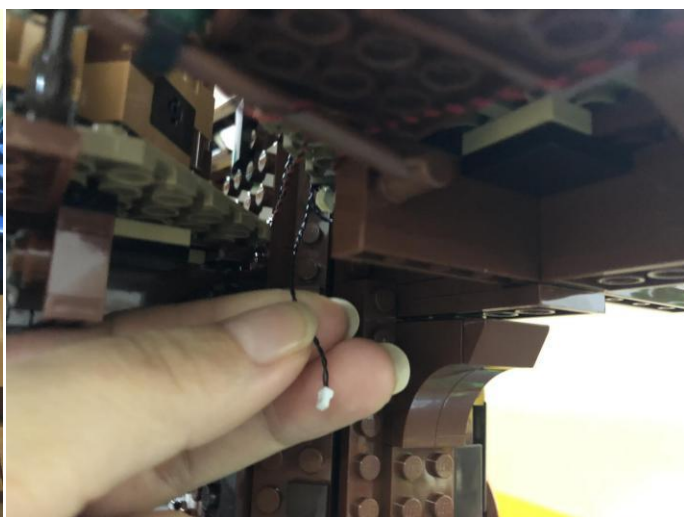
Take a 15cm connecting cable, connect it to the expansion board



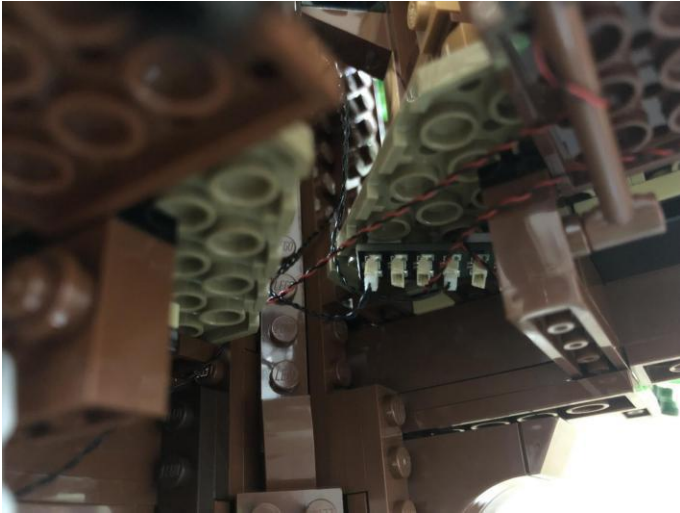
Reconnect the top of the tree



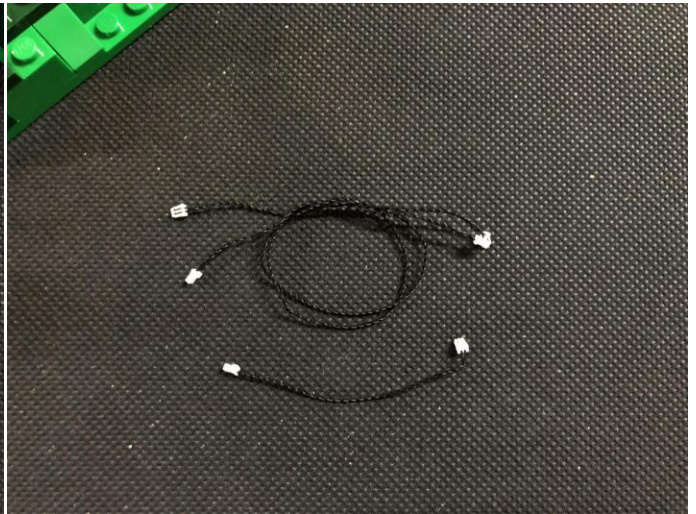
Place the connecting cable downward through the space between the bathroom and the bedroom



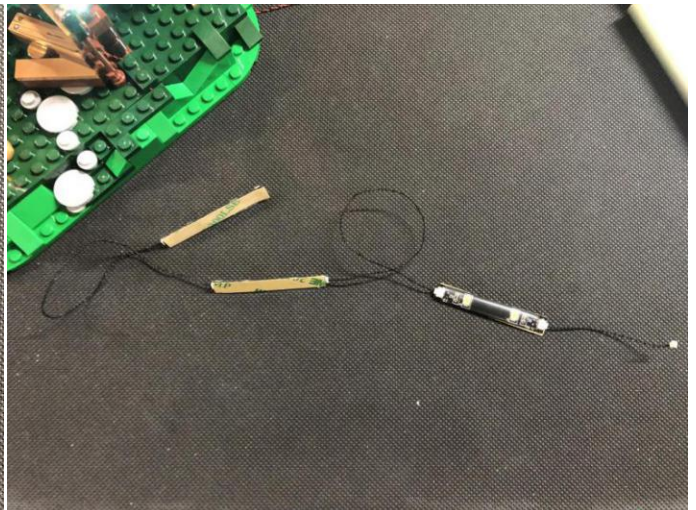
connect it to the following expansion board



Take 3 warm white strip lights, two 15cm connecting cable, a 5cm connecting cable



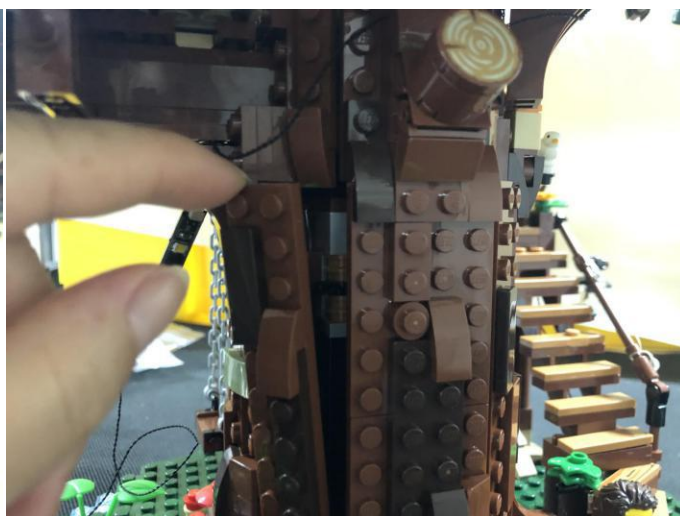
Assemble the 2 cables and the 3 strip lights together as per below, then, connect the 5cm connecting cable to the strip light at far right



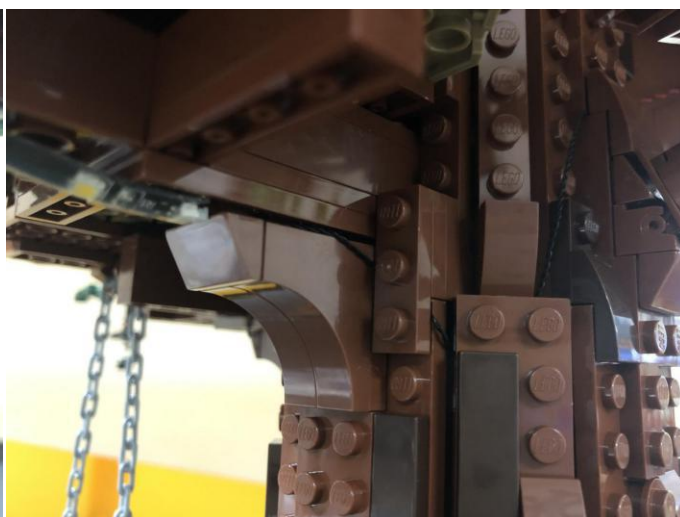
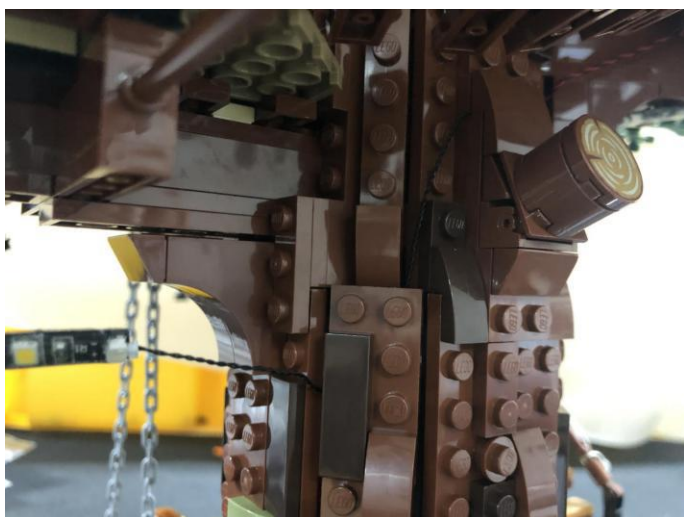
Stick the far left strip light underneath the children' s room



Secure the connecting cable with the following pieces



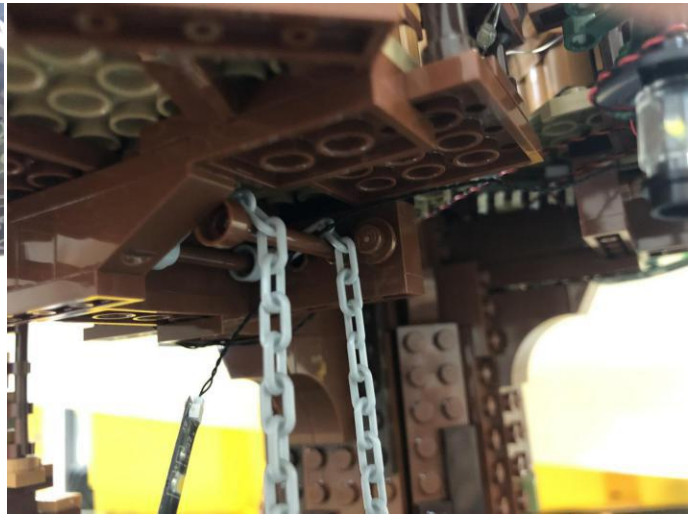
Place the connecting cable as per below



Stick the second strip light underneath the bathroom



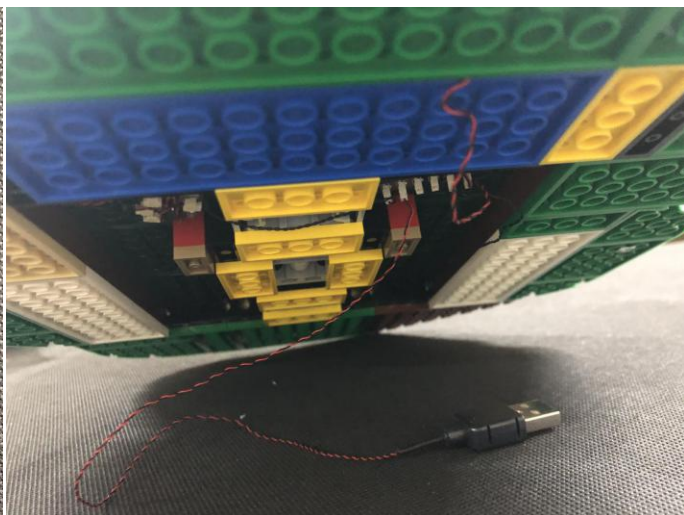
Continue to place the last strip light as per below



Stick the strip light over the swing, connect the 5cm connecting cable to the expansion board nearby



Take the USB cable, connect it to the expansion board underneath



This completes installation of this LED Lighting Kit. ENJOY!

