

# 21318 Tree House P14201

- **P14201 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown “21318 P14201”.**
- **Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.**



# Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

## **Section A:** Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material. The type of components is indicated by the label on the bag.

## **Section B:** Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

## **Section C:** laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step

## Section A: Check the type and quantity of components.

There are 13 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Bit Lights-15CM-Warm White	Bit Lights-15CM-Warm White	5
Bit Lights-30CM-Warm White	Bit Lights-30CM-Warm White	4
LED Strip Lights-Green	LED Strip Lights-Green	2
LED Strip Lights-Warm White	LED Strip Lights-Warm White	6
Expansion Board	6 Socket Expansion Board	5
	2 Socket Expansion Board	1
USB Power Cable	USB Power Cable-30CM	1
Connecting Cables-5CM	Connecting Cables-5CM	4
Connecting Cables-15CM	Connecting Cables-15CM	7
Connecting Cables-30CM	Connecting Cables-30CM	2
Connecting Cables-50CM	Connecting Cables-50CM	1
Flicker-Effects Board	Flicker-Effects Board	1
Multi-Colour Light String	Multi-Colour Light String	6
Parts package		

Please contact us immediately if there have any missing components.

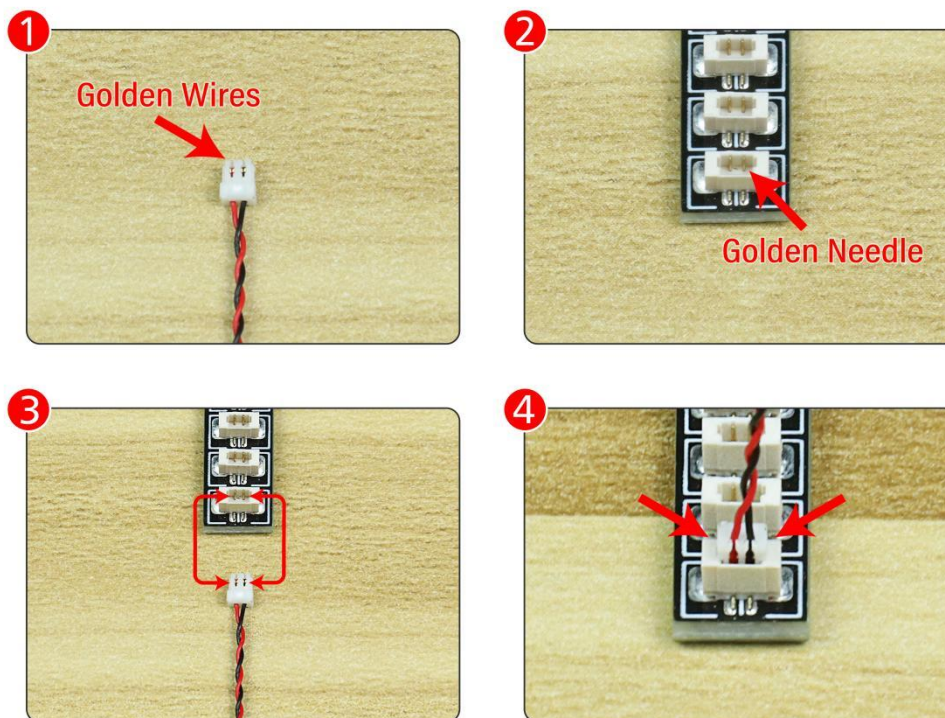
## Section B: Test that each components is working properly.

We need a structure to test all lights, so take out the bag with label “USB Power Cord”and “Expansion Boards”as follows.



It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

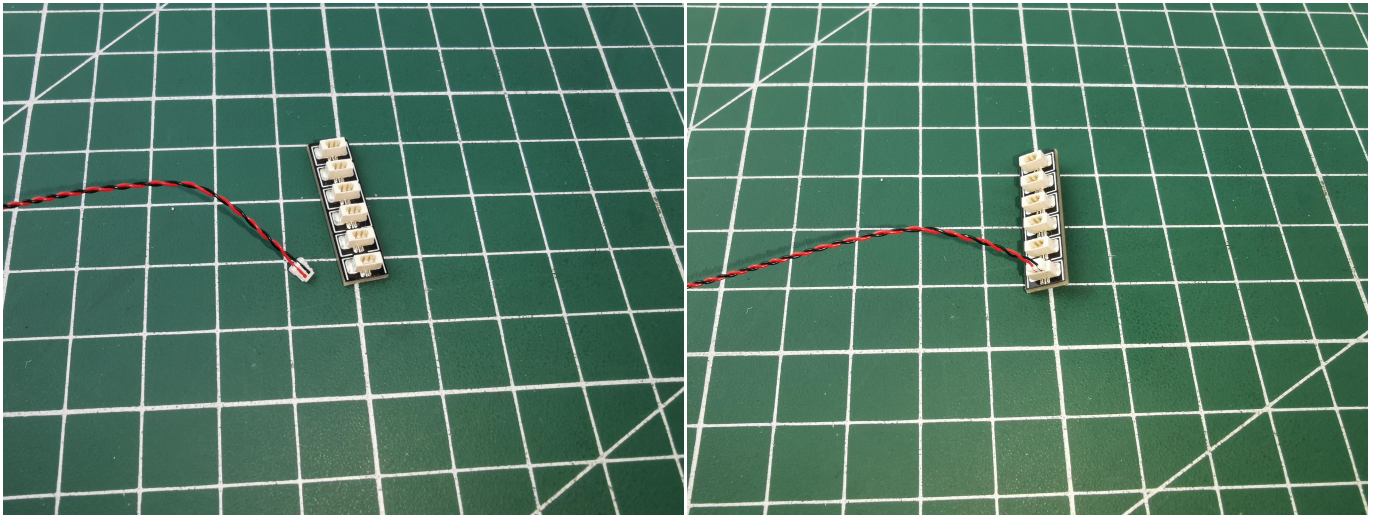
Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board.shown as blow.





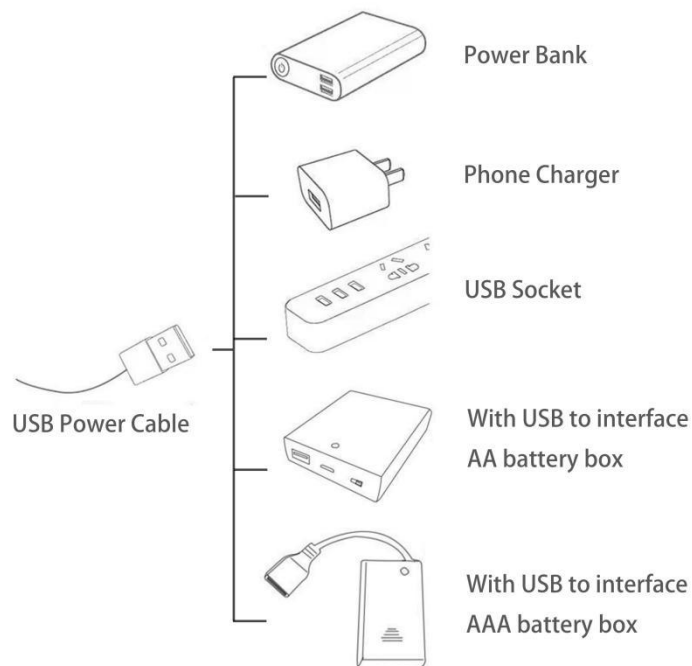
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:



The USB Power Cord can be powered by phone chargers, power banks, etc.

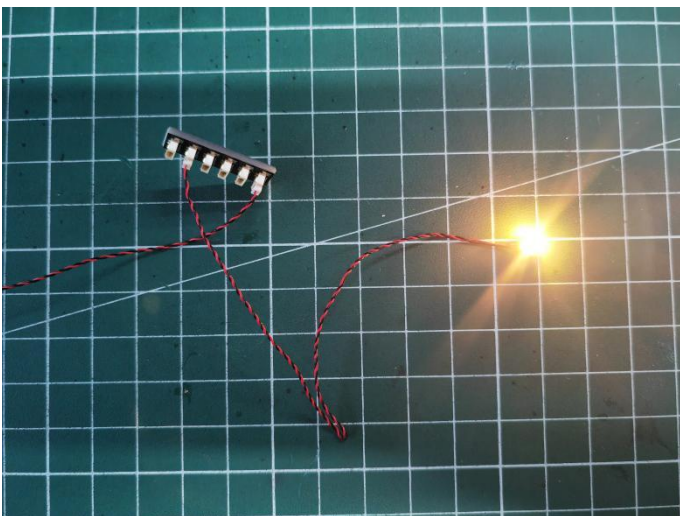
USB connectors to connect devices



**This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.**



**when we test "Bit Lights-15CM-Warm White" particles,Take out the bag labelled "Bit Lights-15CM-Warm White".Take out one of the light and connect it to the socket. Turn on the power bank, the light will turn on normally as shown below.**



**Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.**



**The components needs to be tested in this set is 4\*Bit Lights-15CM-Warm White,4\*Bit Lights-30CM-Warm White,2\*LED Strip Lights-Green,6\*LED Strip Lights-Warm White,6\*Multi-Colour Light String.**

**Please contact us immediately if any components don't work.**



**Section C:** laying out components following the instruction.

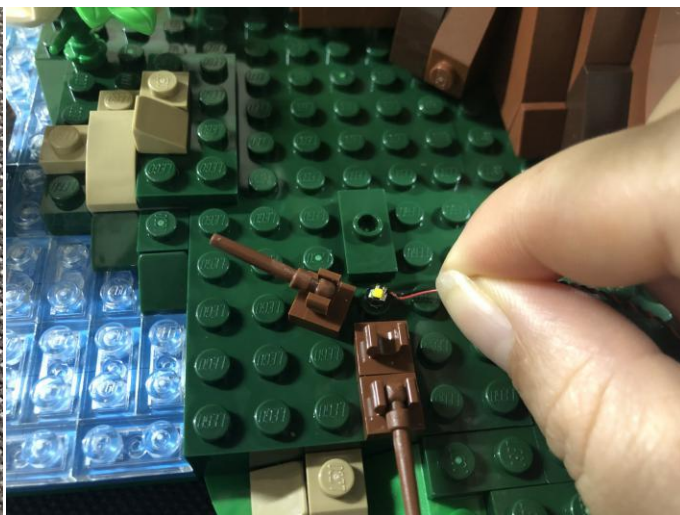
1. Remove the top of the tree first.



2. Disconnect the following pieces.



3. 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.





**4. Secure the light with the trans round orange piece.**



**5. Remove the following pieces, disconnect the 2 base plates.**



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





7



8.Reconnect the pieces.

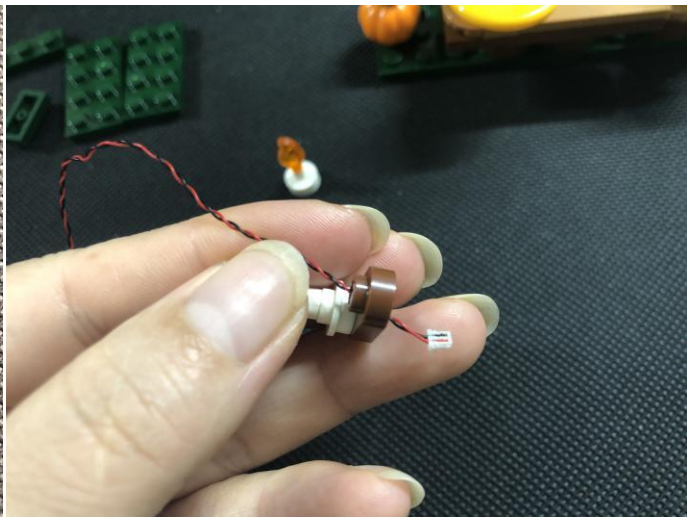
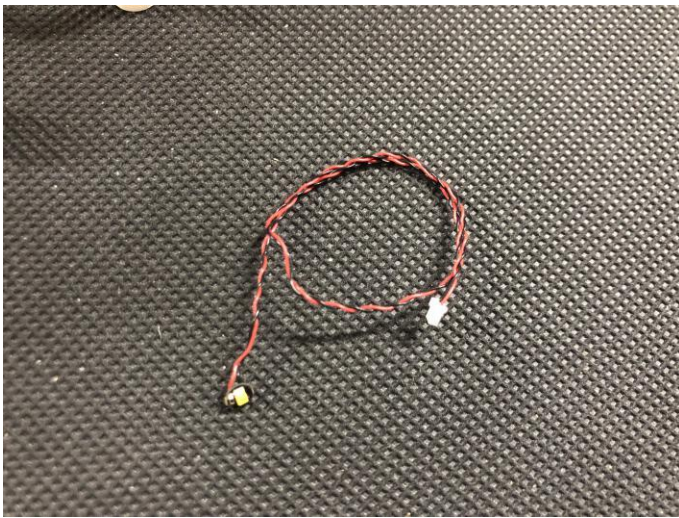


9.Continue to install lights for the candles on the table.

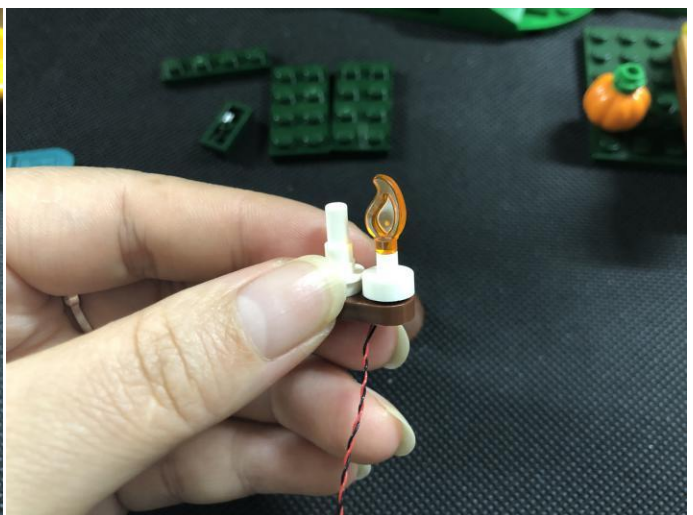




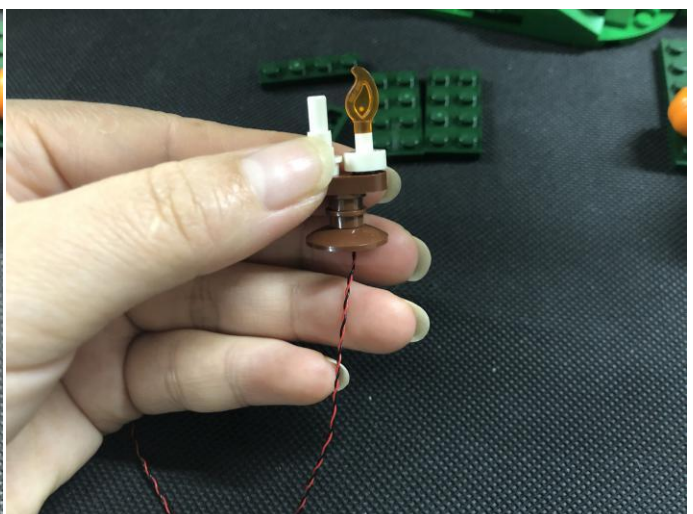
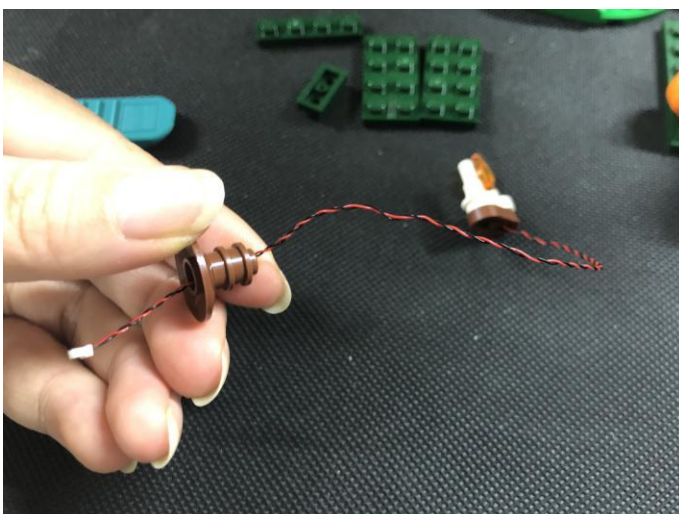
**10. Take a warm white 15cm dot light, thread it through the cable piece as per below, reconnect the flame.**



**11**



**12. Thread the connector through the base, reconnect the base.**





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



**14. Disconnect the table, thread the cable underneath, reconnect it.**

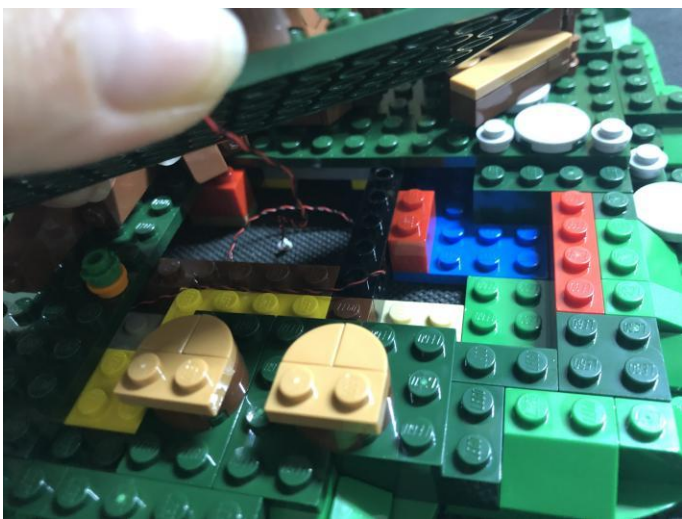


**15**





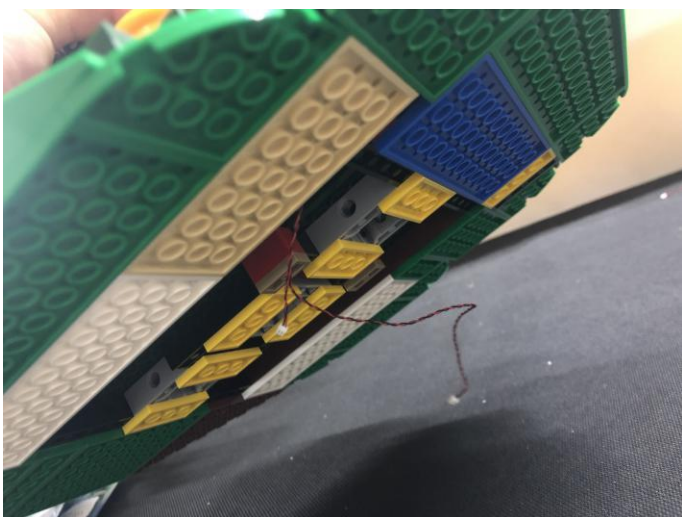
**16. Pull the cable to the bottom of the base plate, reconnect other pieces.**



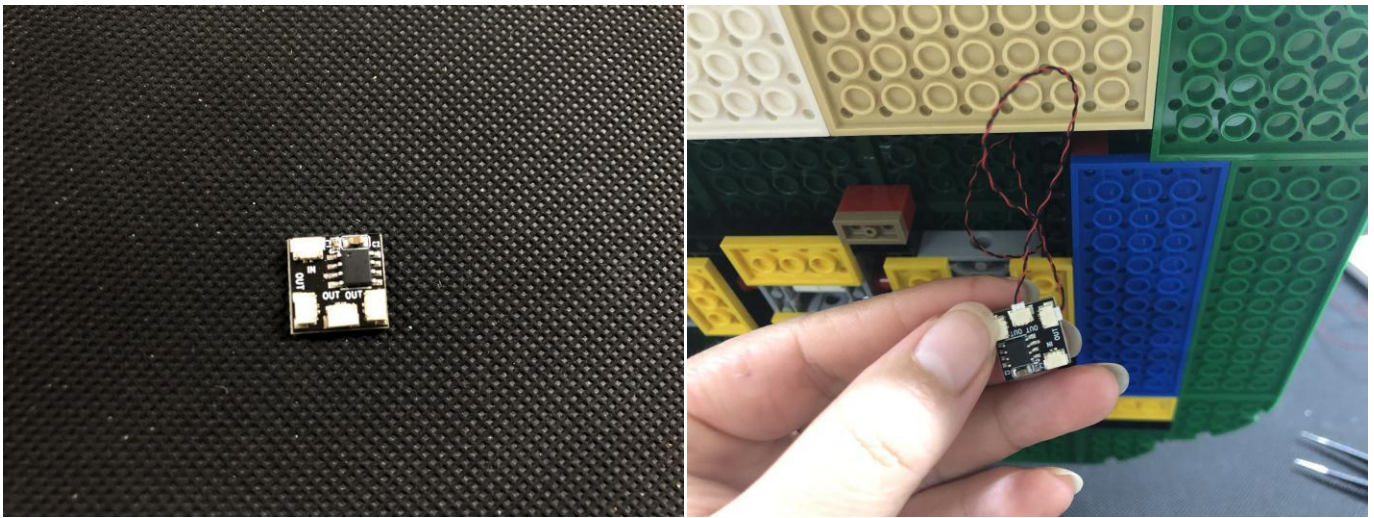
**17**



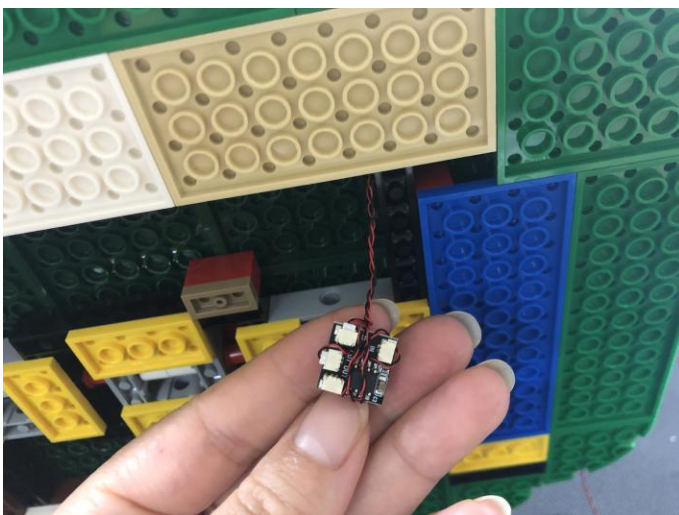
**18. You can see the cables of the lights underneath the base.**



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



**20. Tuck excess cables around the Flicker Effects Board.**



**21. Move onto installing lights for the railing of the stairs.**

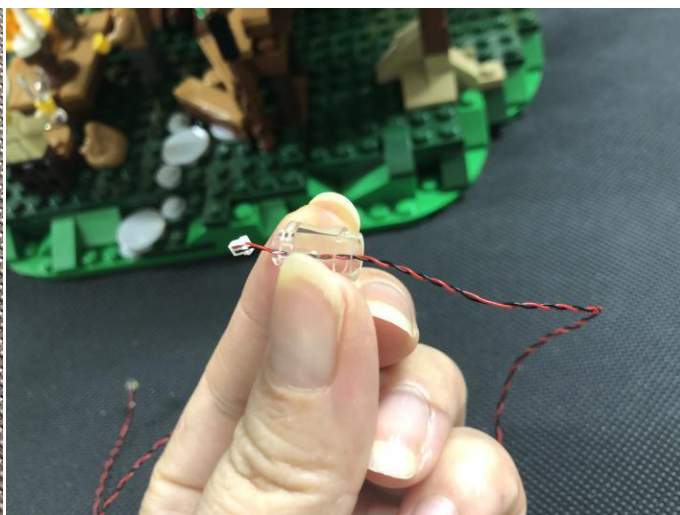




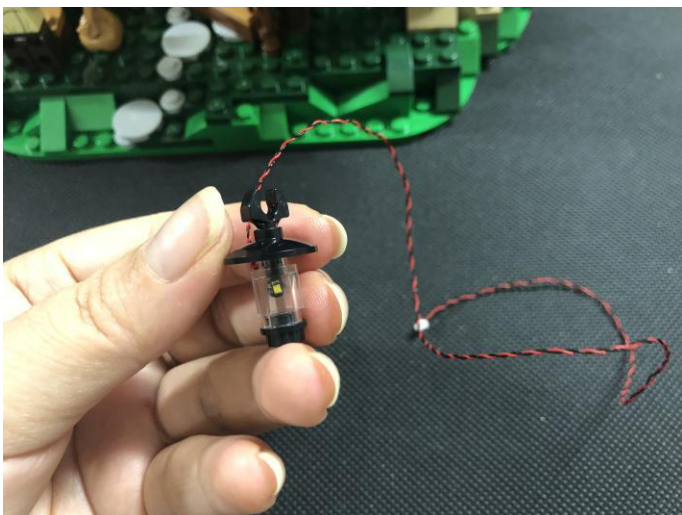
**22.Remove the lampshade and disassemble it as per below.**



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



**24.Reconnect the lamp.**





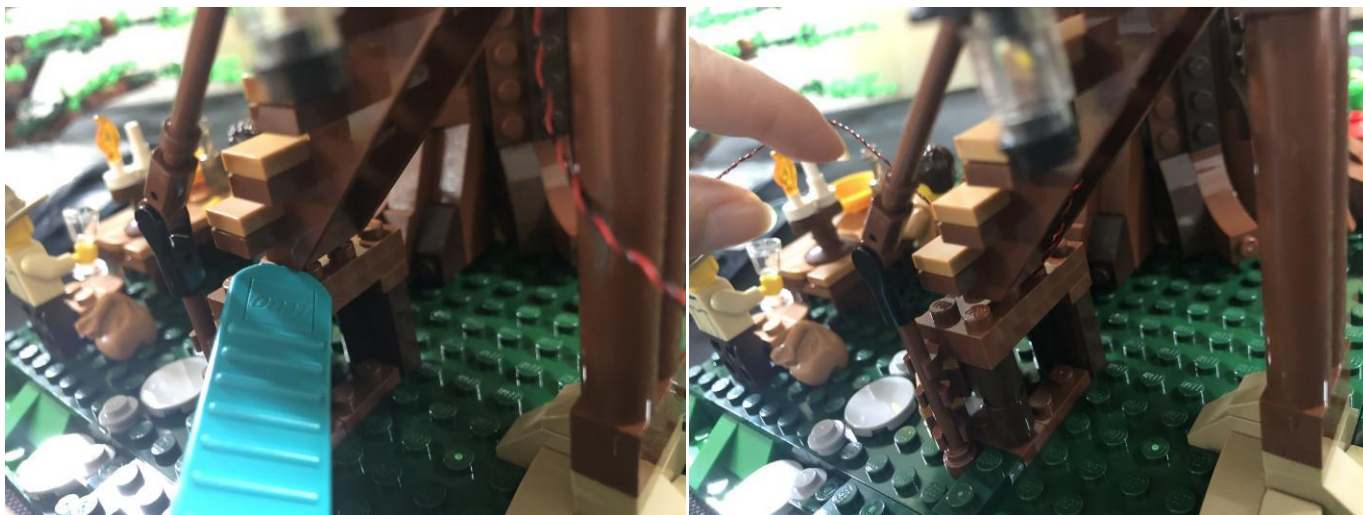
**25. Thread the cable of the light through the gap between the stairs, pull it out from the back of the stairs.**



**26. Remove the third stair.**



**27. Thread the cable through the following space.**





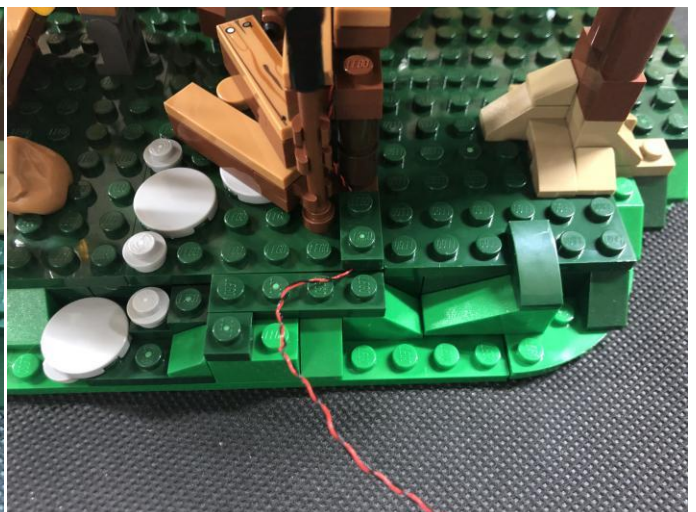
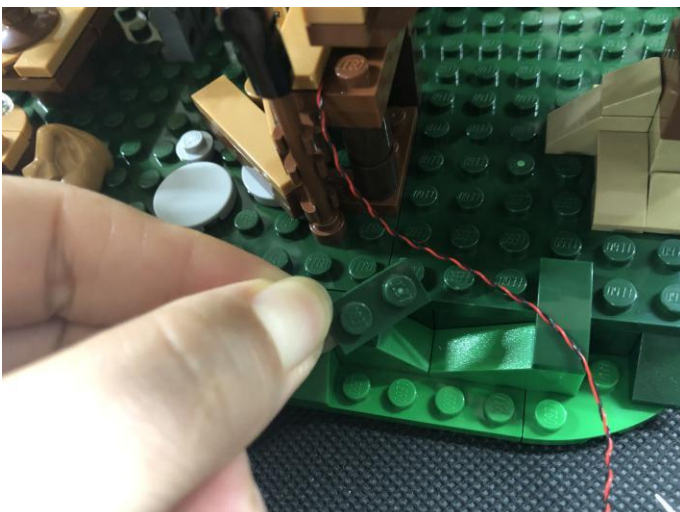
28



29. Pull the cable out, reconnect the stair.

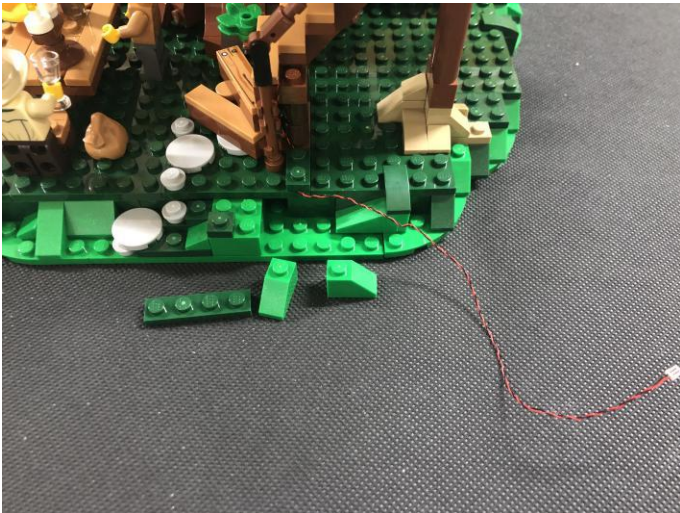


30. Remove the following 1x2 green plate to secure the cable as per below.

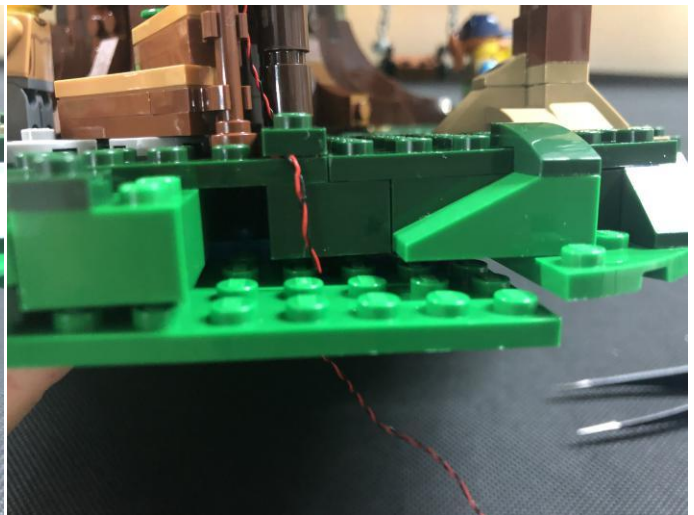
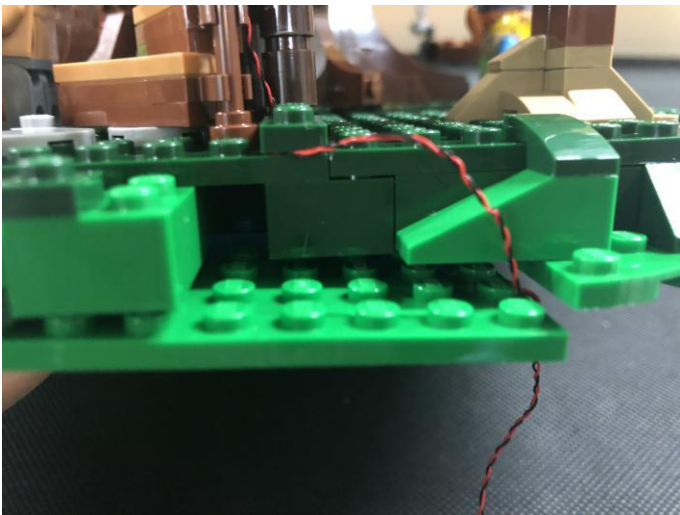




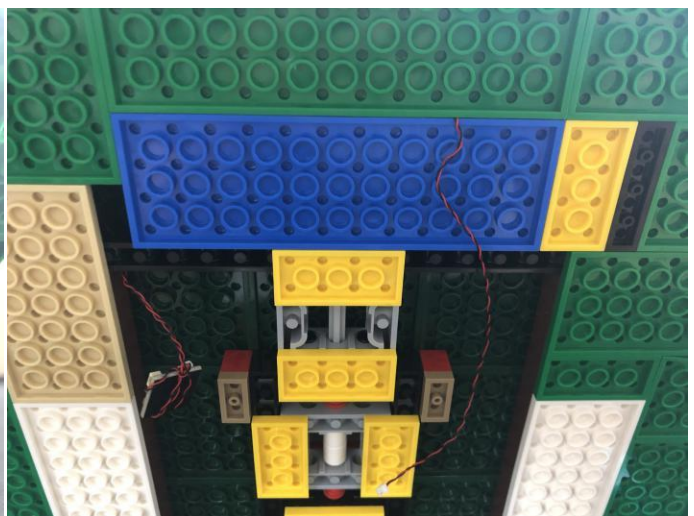
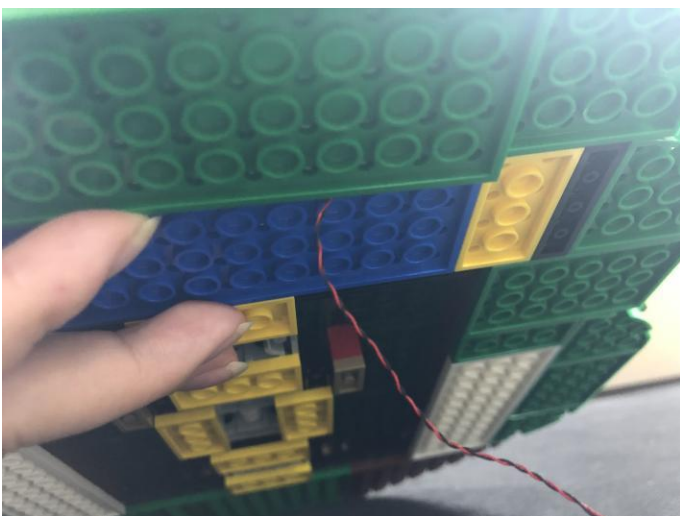
**31. Remove the following 1x4 green plate and 2 slope bricks.**



**32. Place the cable as per below.**



**33**

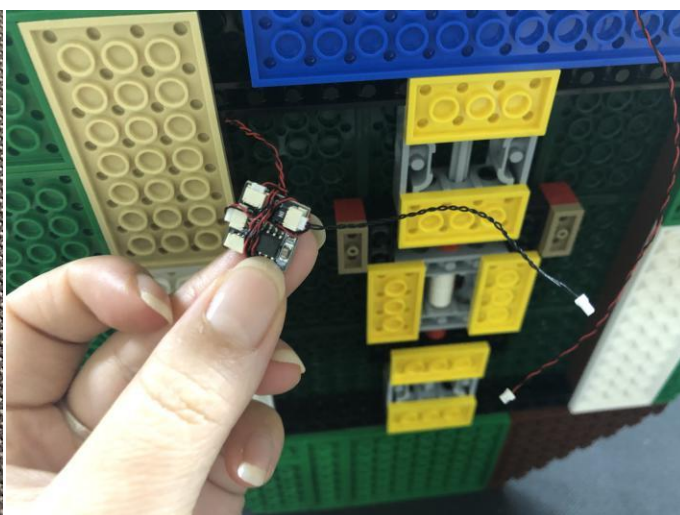




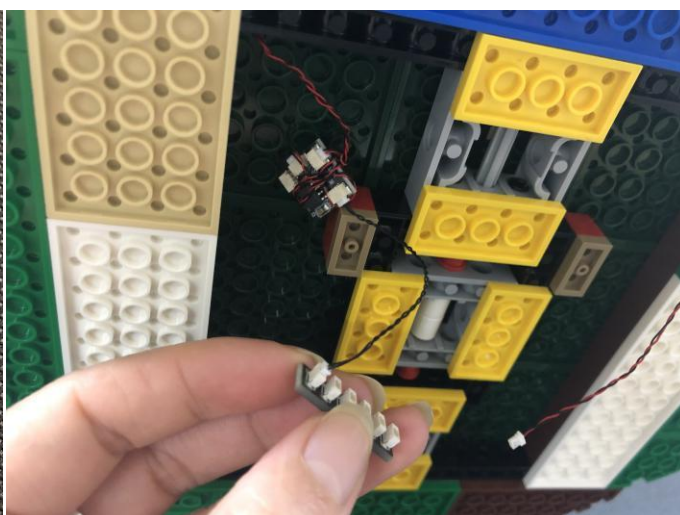
**34.Reconnect the pieces.**



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

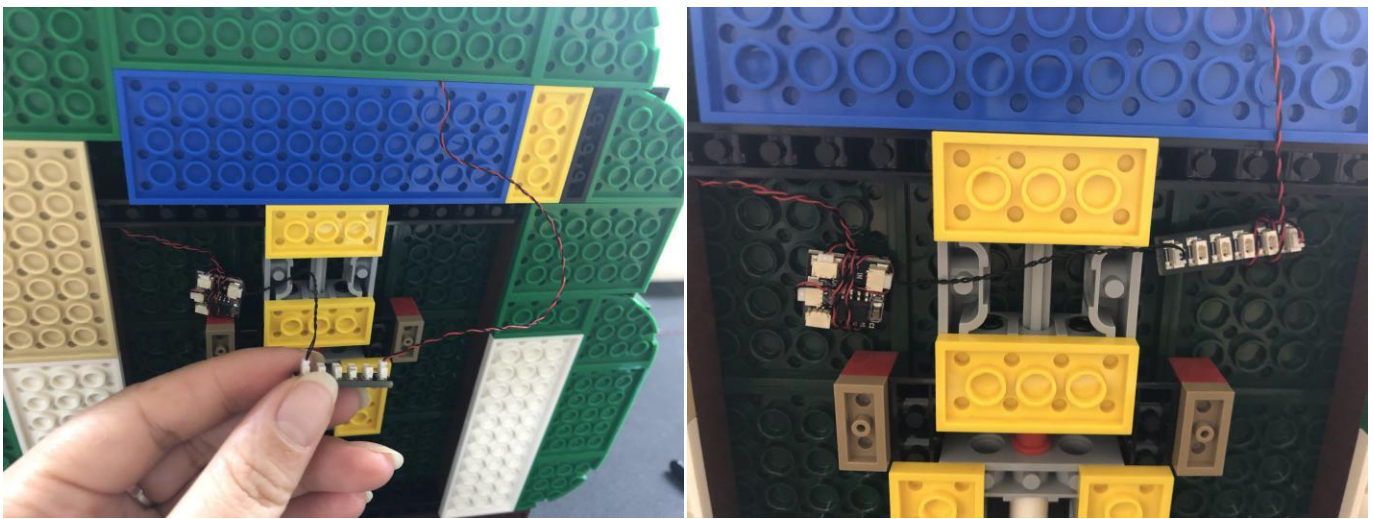


**36.Take a 6-port expansion board, connect the other end of the 5cm connecting cable to the expansion board.**

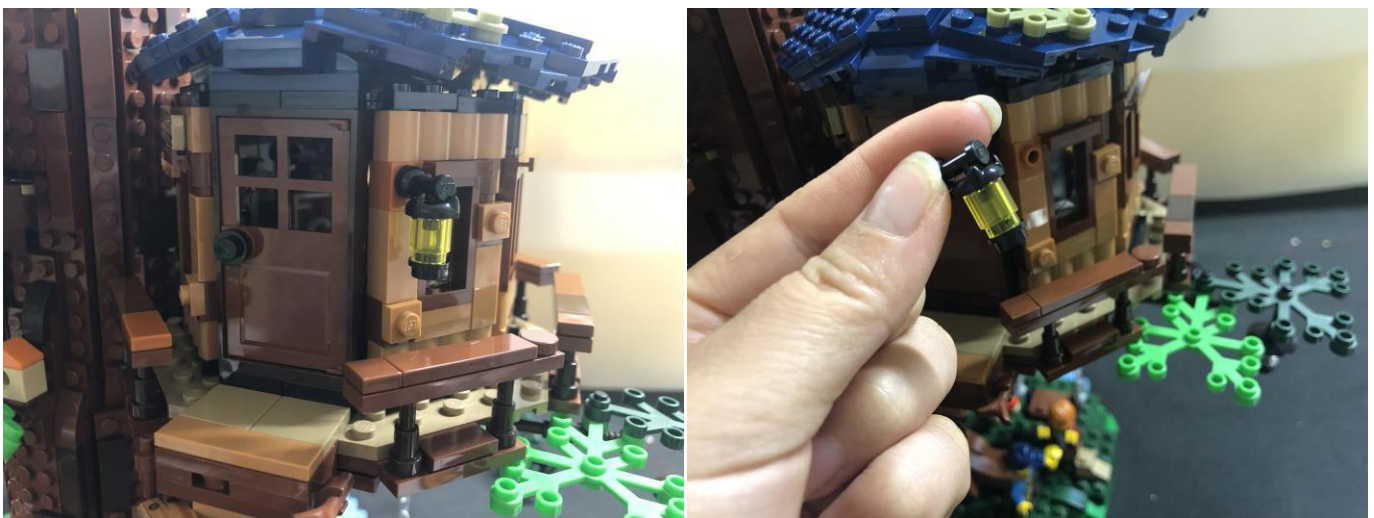




**37. Connect the cable of the lamp to the expansion board, tuck excess cable, stick the Flicker Effects Board and the expansion board to the bottom with adhesive squares.**



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

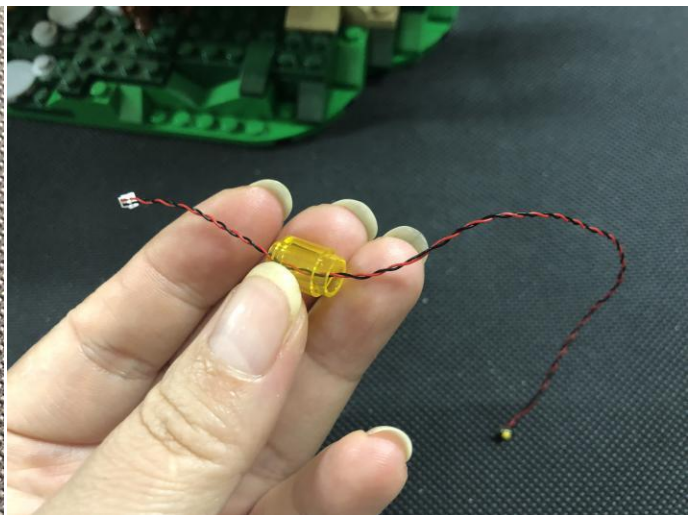




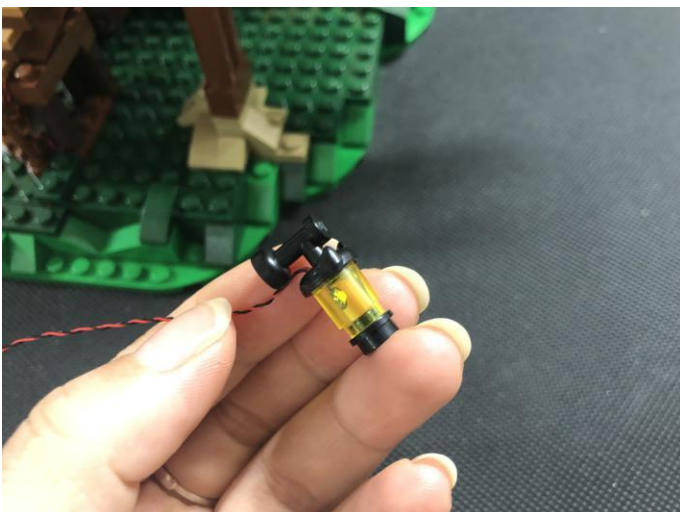
**39. Disassemble the lamp as per below.**



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



**41. Reconnect the lamp**

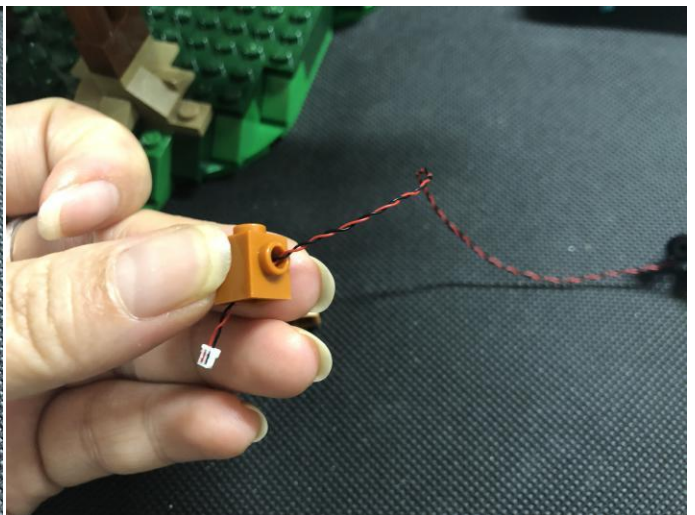




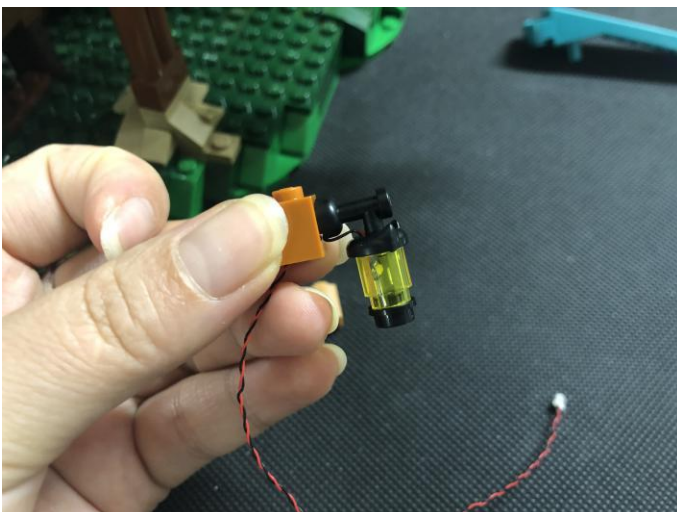
**42.Remove the roof of the room, disconnect the 1x4 piece.**



**43.Remove the following piece, thread the light through the orange brick.**



**43.Reconnect the lamp.**





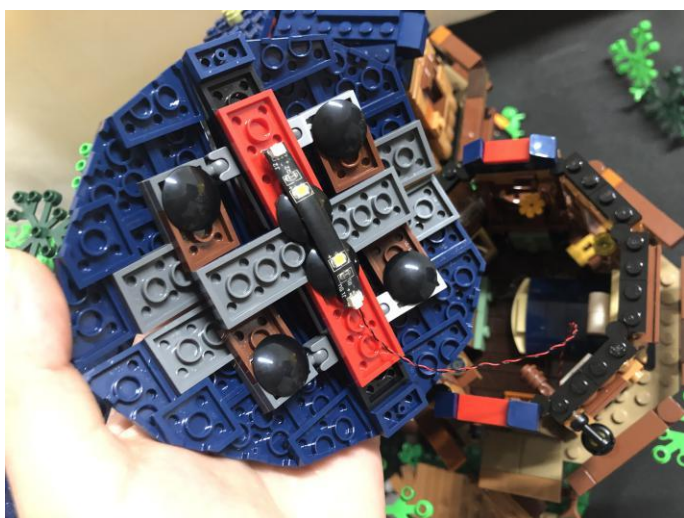
**44.Reconnect the pieces we removed before, pull the cable toward the inside.**



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



**46.Stick the striplight#1 to the ceiling of the room.**

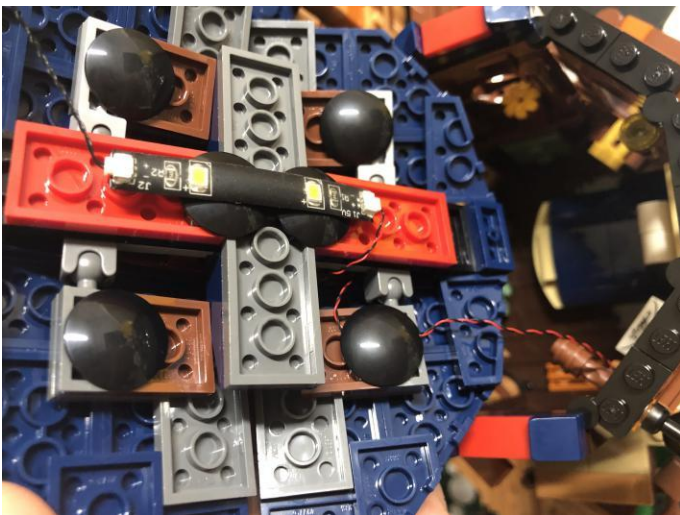




**47. Take a 15cm connecting cable, connect it to the other end of the striplight#1.**



**48. Secure the cable with the following black round piece.**



**49. Reconnect the roof, pull the cable out as per below.**

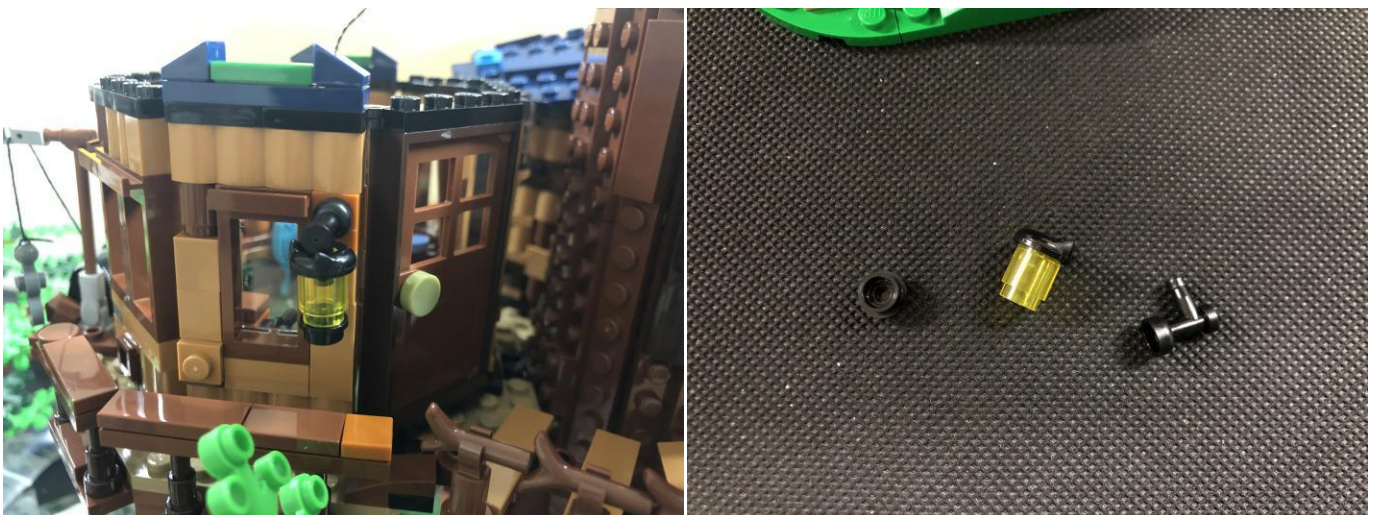




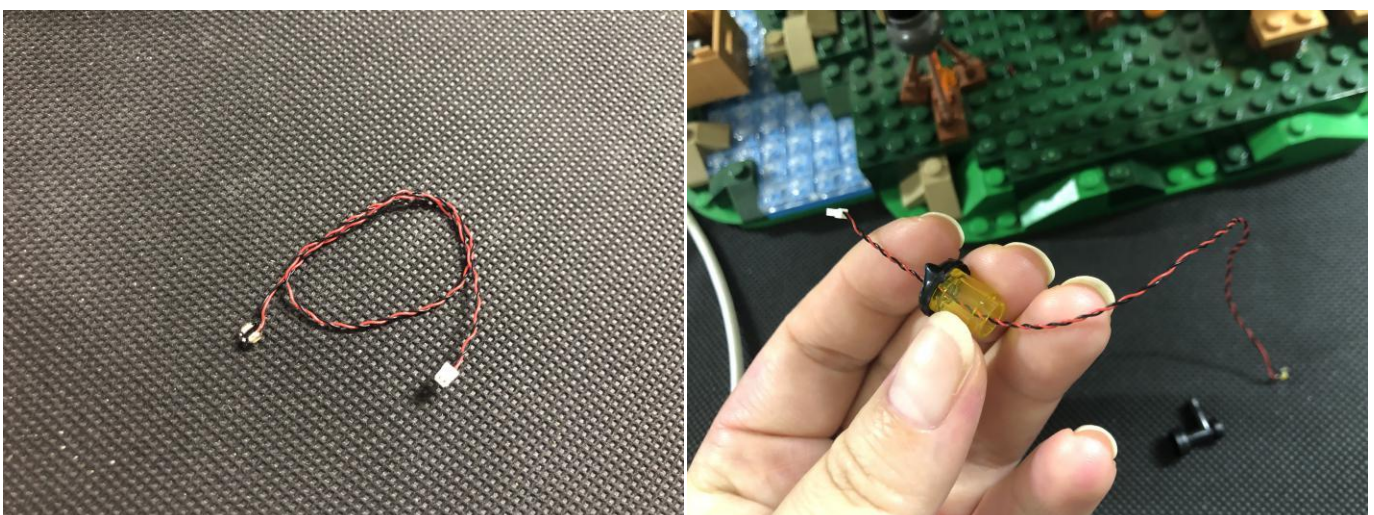
**50. Remove the roof of the bathroom, thread the cable through, secure the cable with the 1x4 black piece.**



**51. Remove the lamp from the outside of the bathroom.**

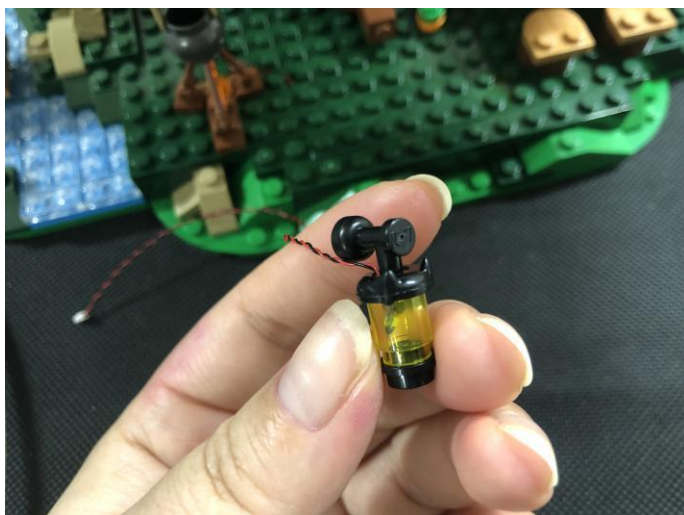


**52. Take a warm white 15cm dot light, thread the light through the trans yellow lampshade.**

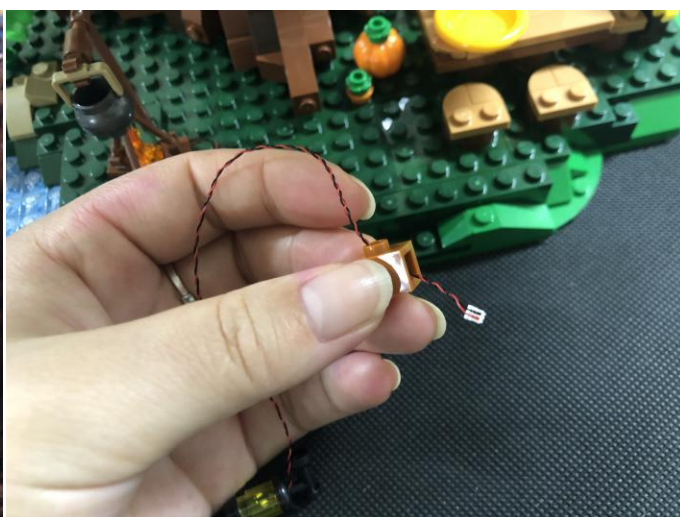




**53.Reconnect the lamp.**



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



**55.Reconnect the lamp.**





**56.Reconnect the pieces we removed before.**



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

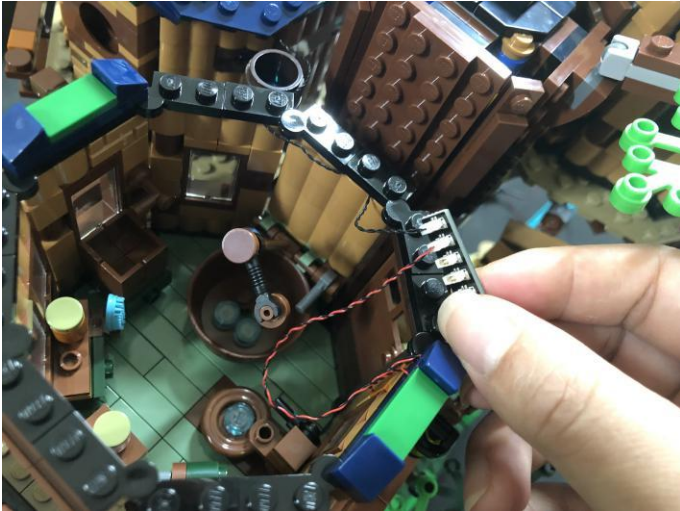


**58.Remove the following piece to help to hide the cable, connect the cables to the expansion board.**





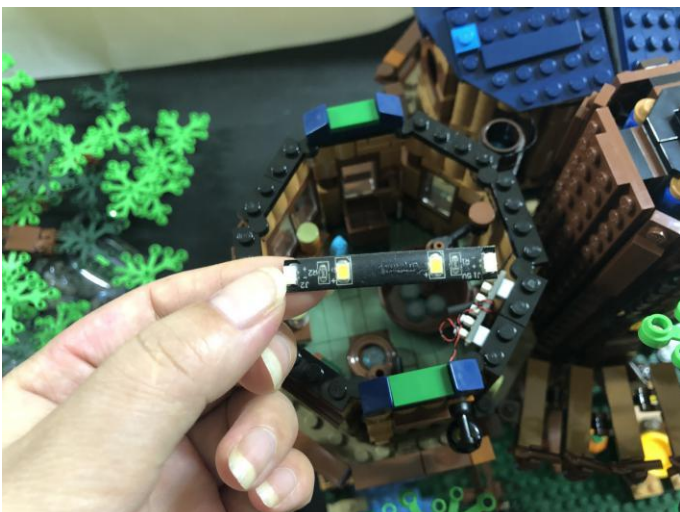
59



60. Stick the expansion board to the following position with adhesive square.

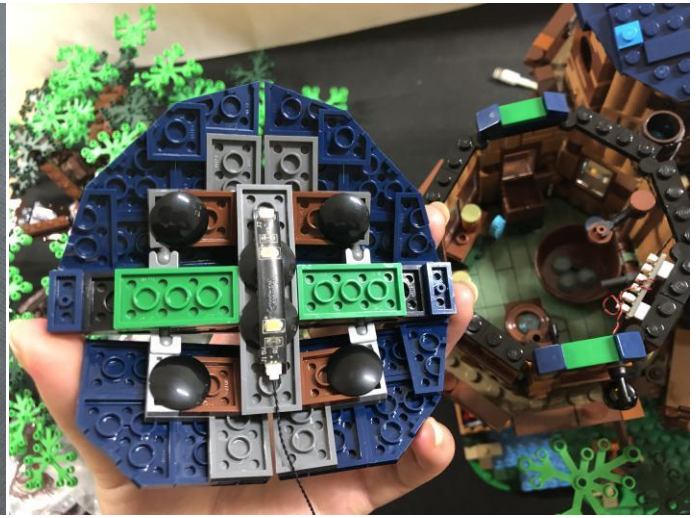
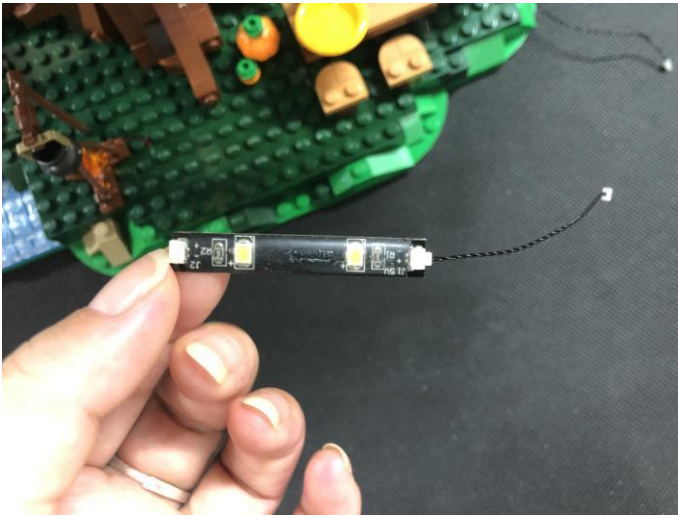


61. Take a warm white strip light (striplight#2), a 5cm connecting cable.





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



**63. Connect the cable from the strip light to the expansion board.**



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





**65. Pull the cable toward the children's room.**



**66. Remove the following piece to secure the cable.**



**67. Remove the roof of the children's room.**





**68.Remove the following pieces beside the bed.**



**69.Reconnect the following plate and the light brown plate to secure the cable.**



**70.Place the cable as per below, reconnect the blue part.**





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



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

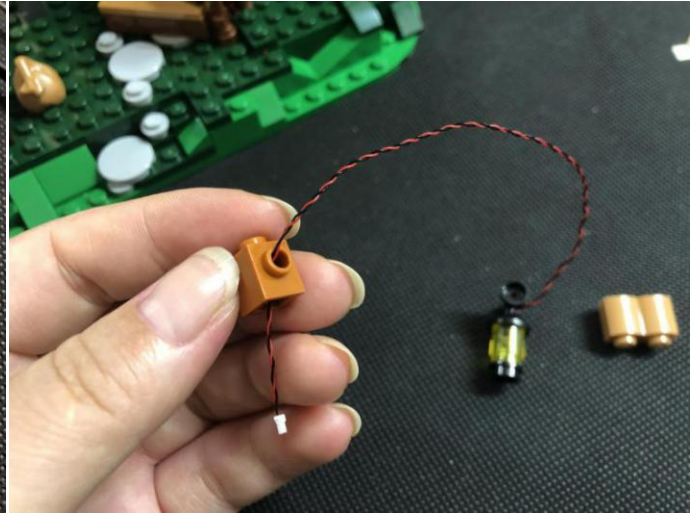
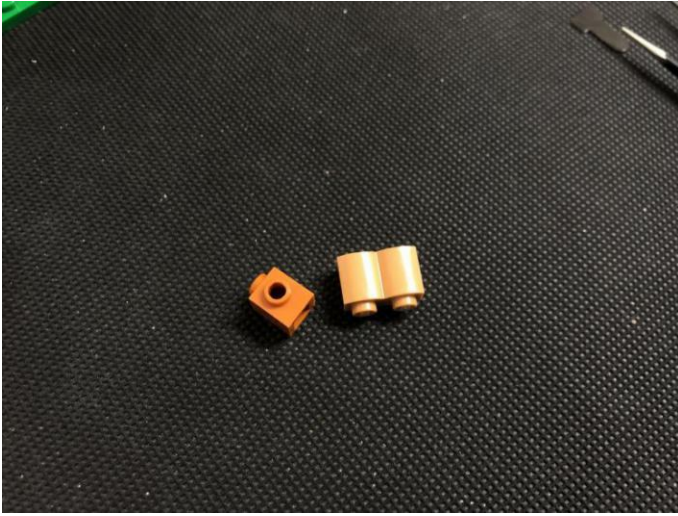


**73. Reconnect the lamp.**

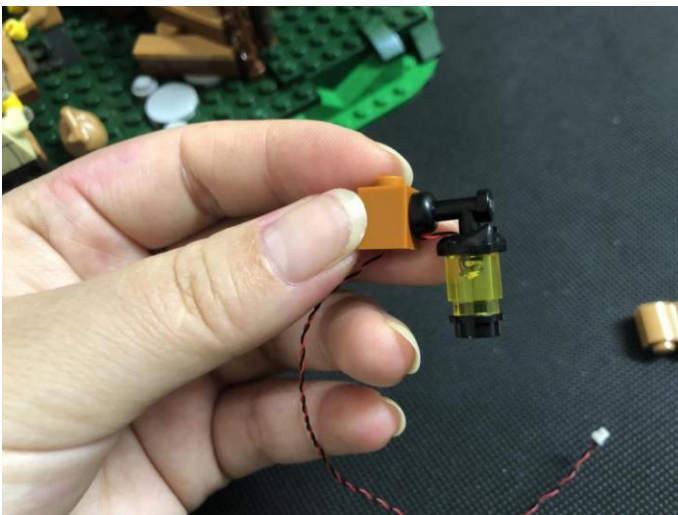




**74. Remove the following 2 pieces, thread the connector of the light through the orange piece.**



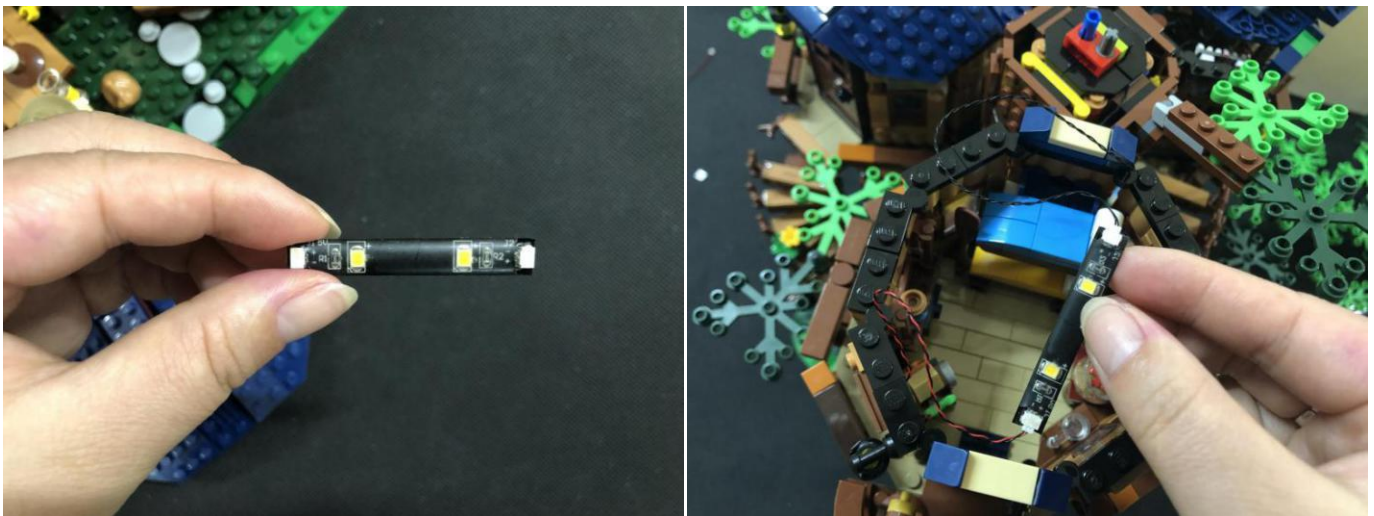
**75. Reconnect the lamp.**



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

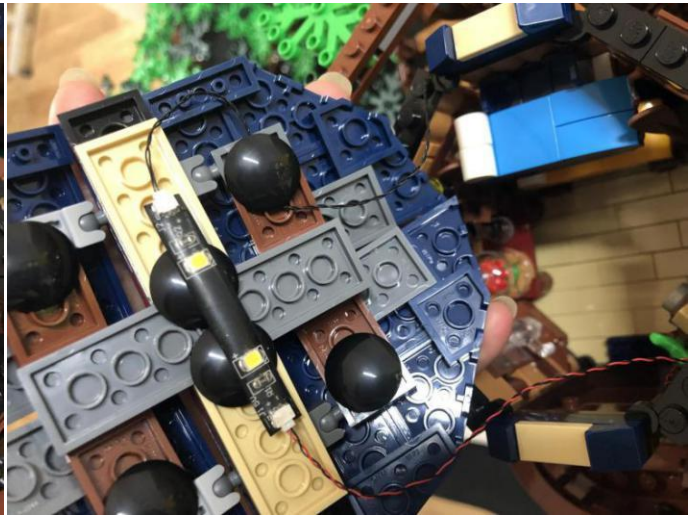


**77.Take a warm white strip light(striplight#3), connect the cable from the bathroom to the right port of the strip light.**





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



**79. Reconnect the roof.**



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

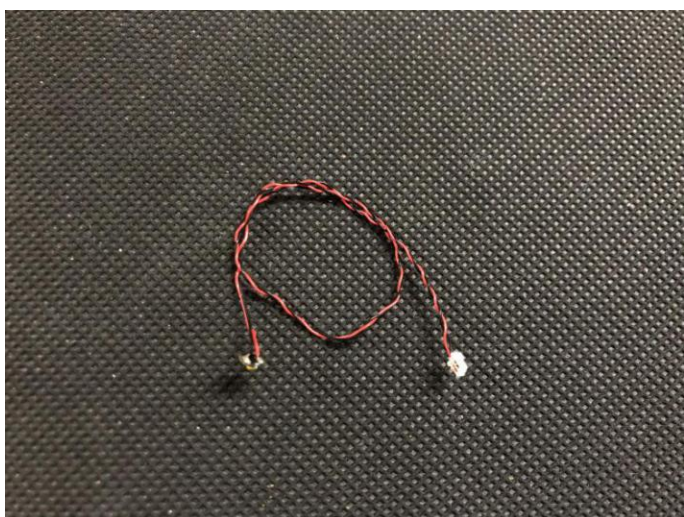




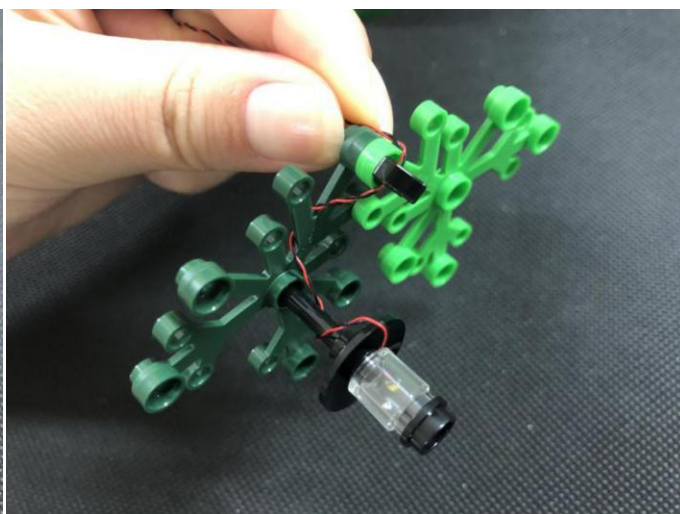
**81. Disassemble them as per below.**



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



**83. Wind the cable around the lamppost and the leaf.**





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



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

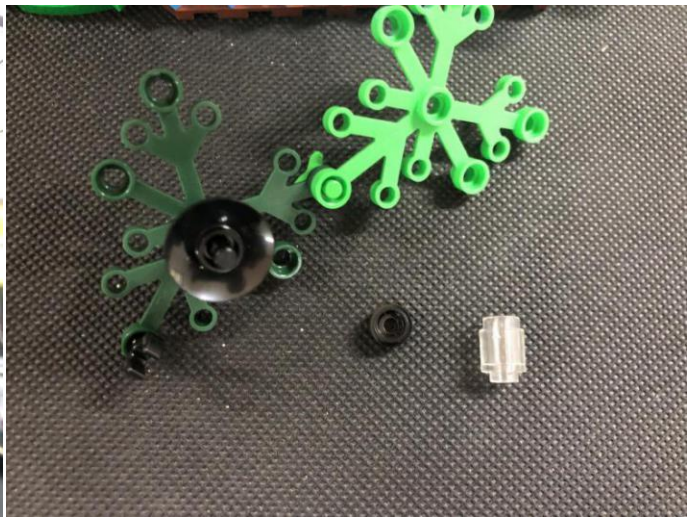


**86.Stick the expansion board underneath the house with adhesive squares.**





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

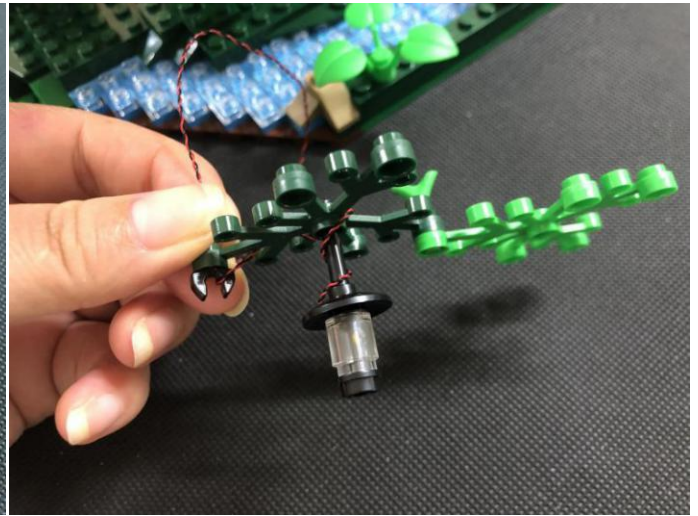
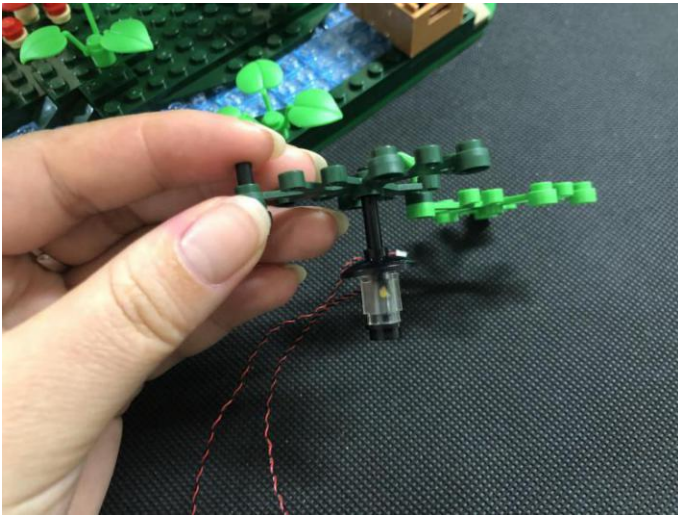


**88. Take a warm white 30cm dot light, thread the connector through the following piece.**

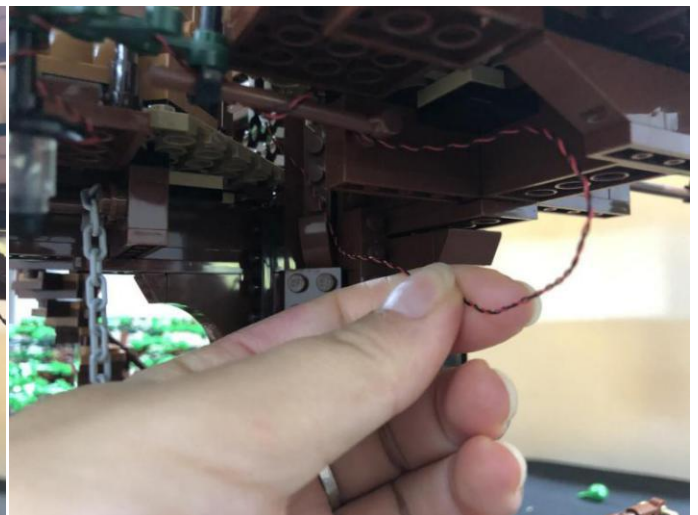




**89.Reconnect the lampshade, wind the cable around the lamp post and the leaf.**



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

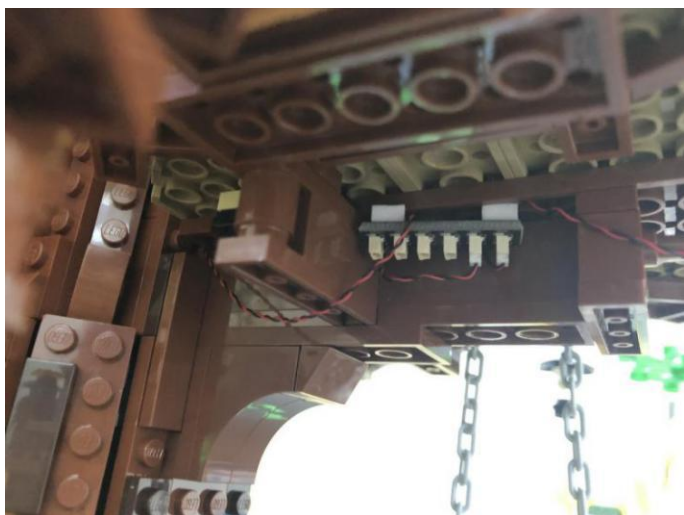


**91**

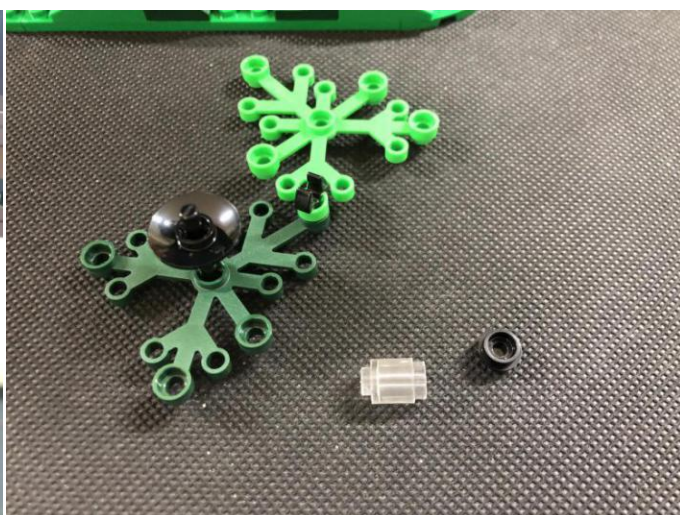




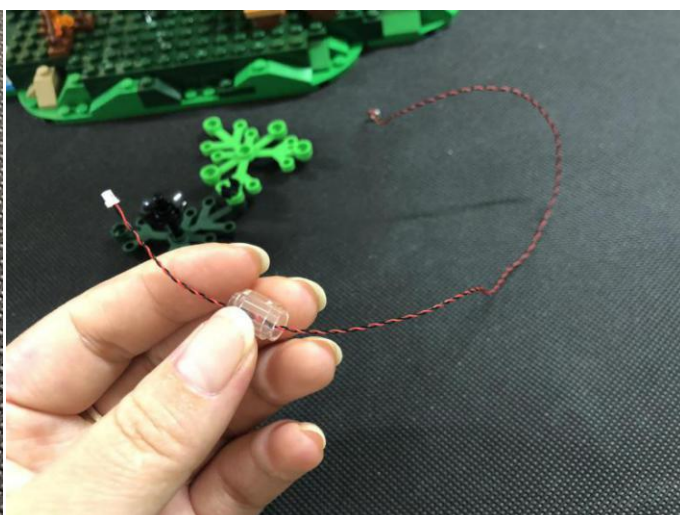
**92. Connect the cable to the expansion board.**



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

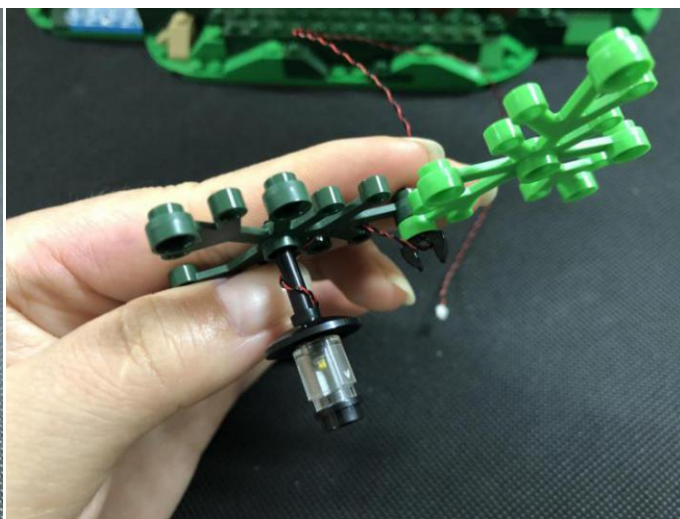
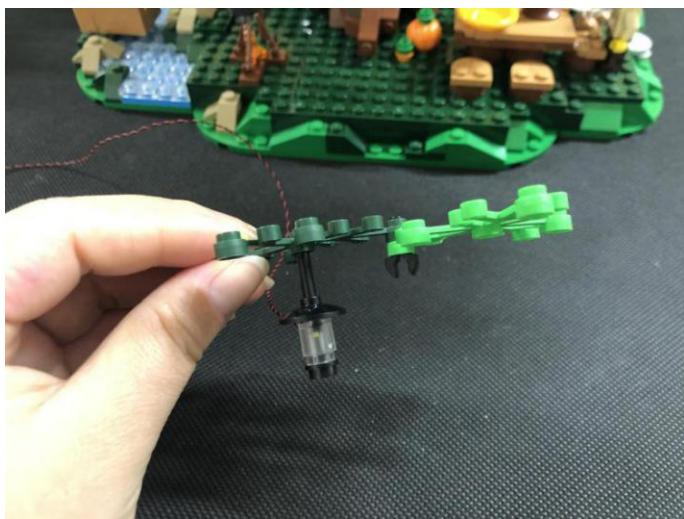


**94. Take a warm white 30cm dot light, thread it through the following piece.**

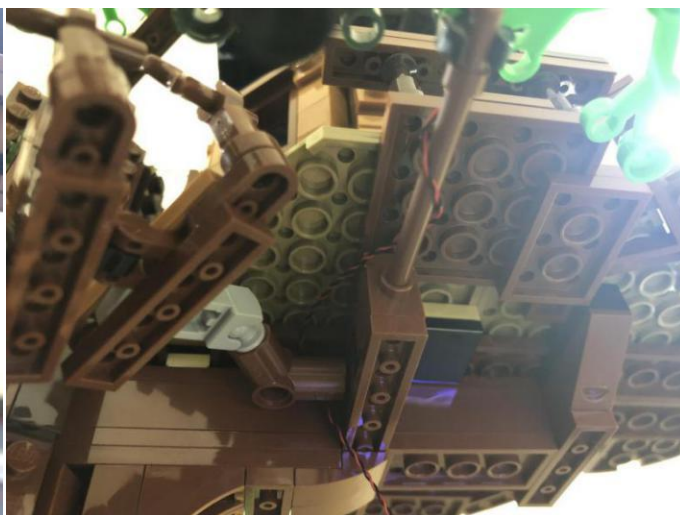
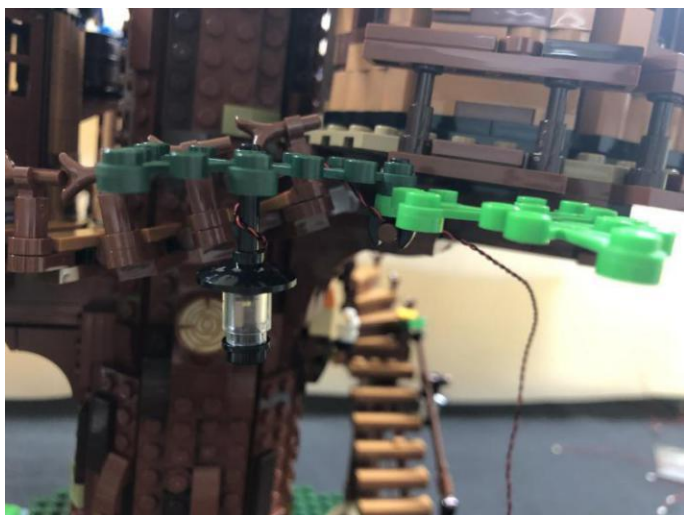




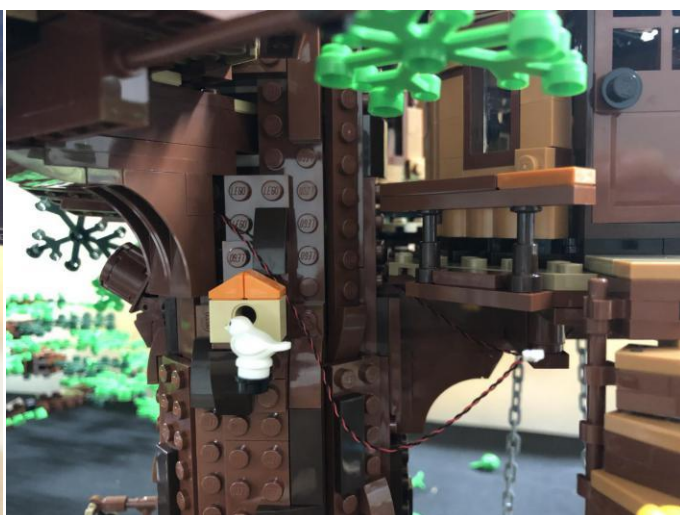
**95.Reconnect the lamp, wind the cable around the lamp post and the leaf.**



**96.Reconnect the piece, wind the cable around the branches.**

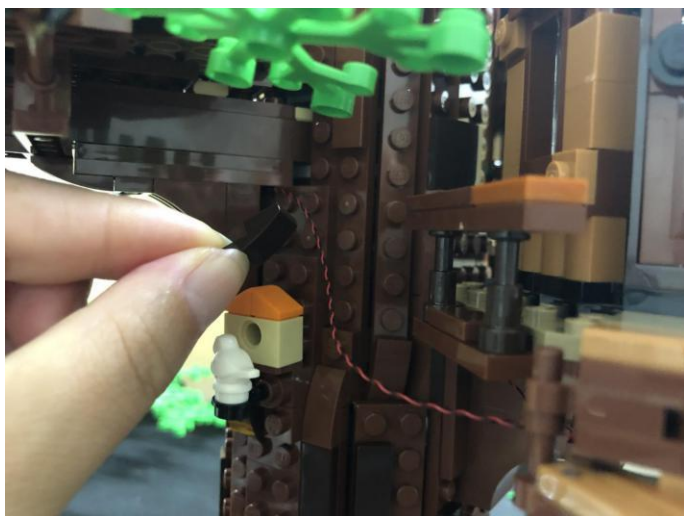


**97.Thread the cable through the following space, pull it out beside the nest.**

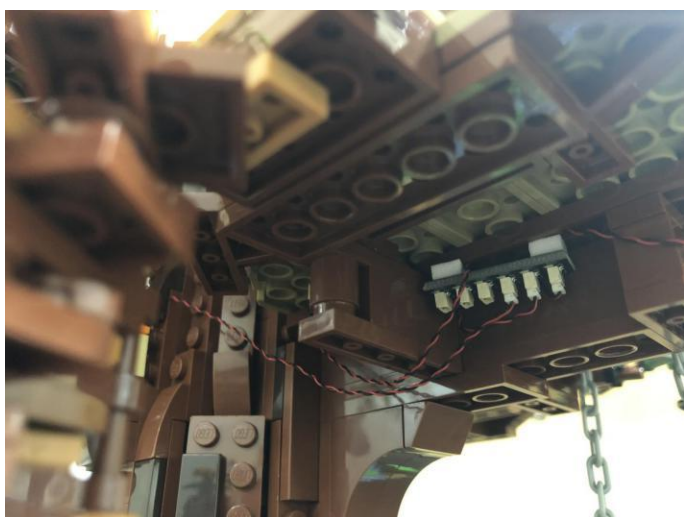




**98.Remove the brown piece at the back of the nest to secure the cable.**



**99.Connect the cable to the expansion board.**



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

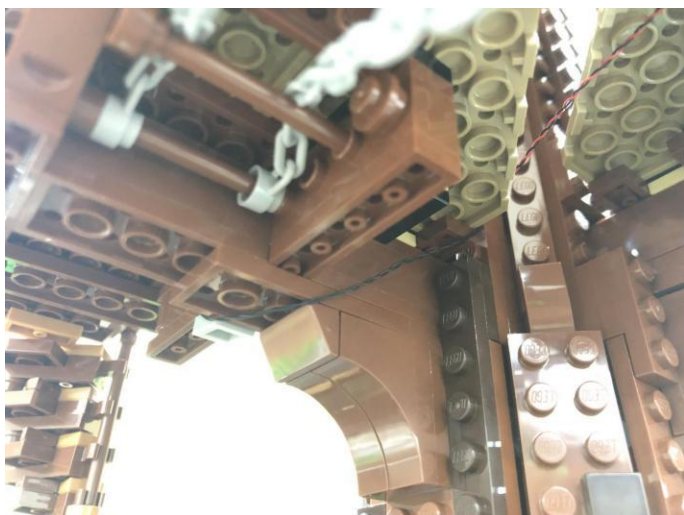




**101. Take a 50cm connecting cable, connect it to the expansion board.**



**102. Pull the cable up from the bottom.**



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

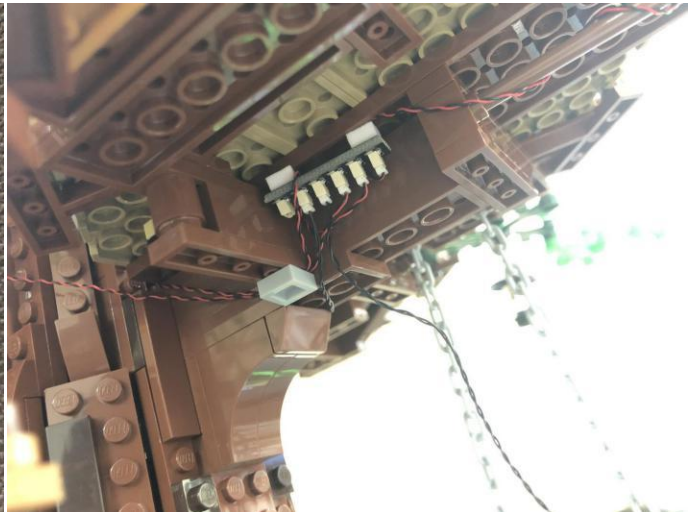




**104.Reconnect the roof of the bathroom.**



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



**106.Remove the following piece to secure the cable.**

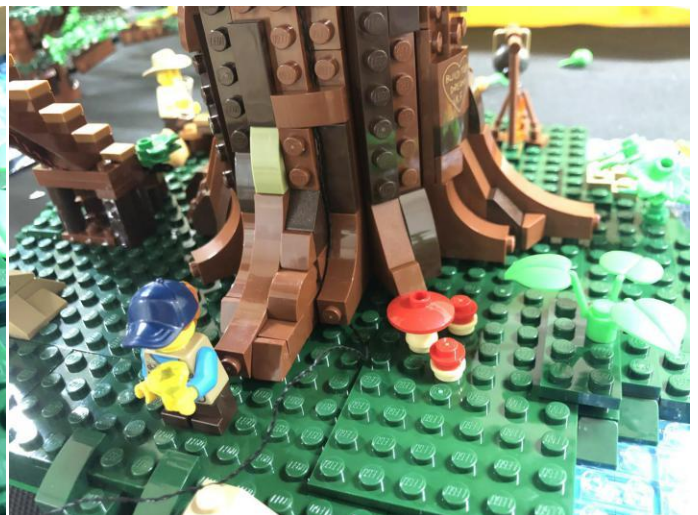
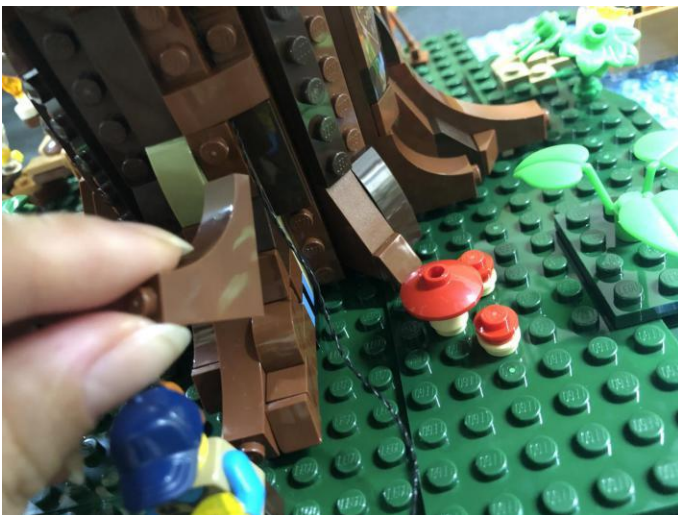




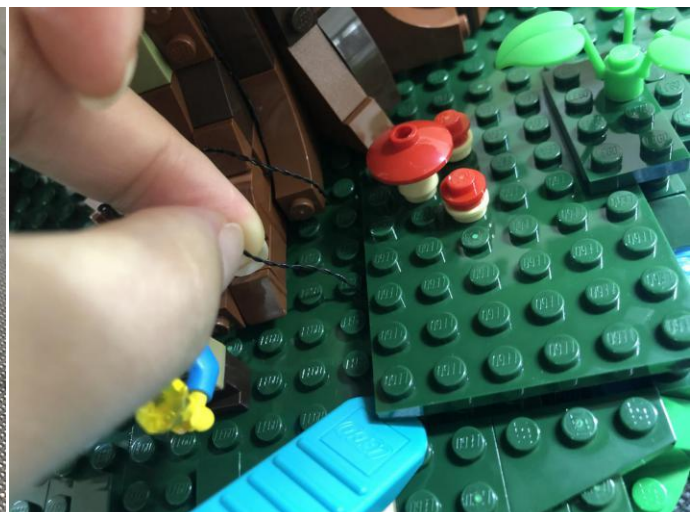
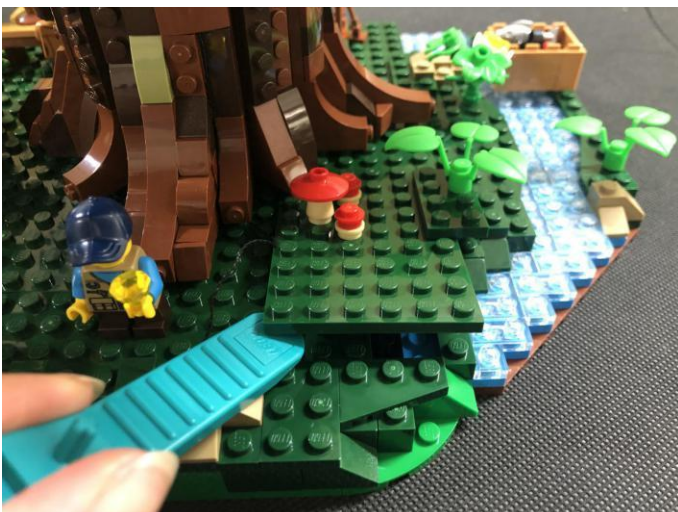
**107. Remove the following 1x2 piece, place the cable underneath, reconnect the piece.**



**108. Continue to remove the following piece to secure the cable.**

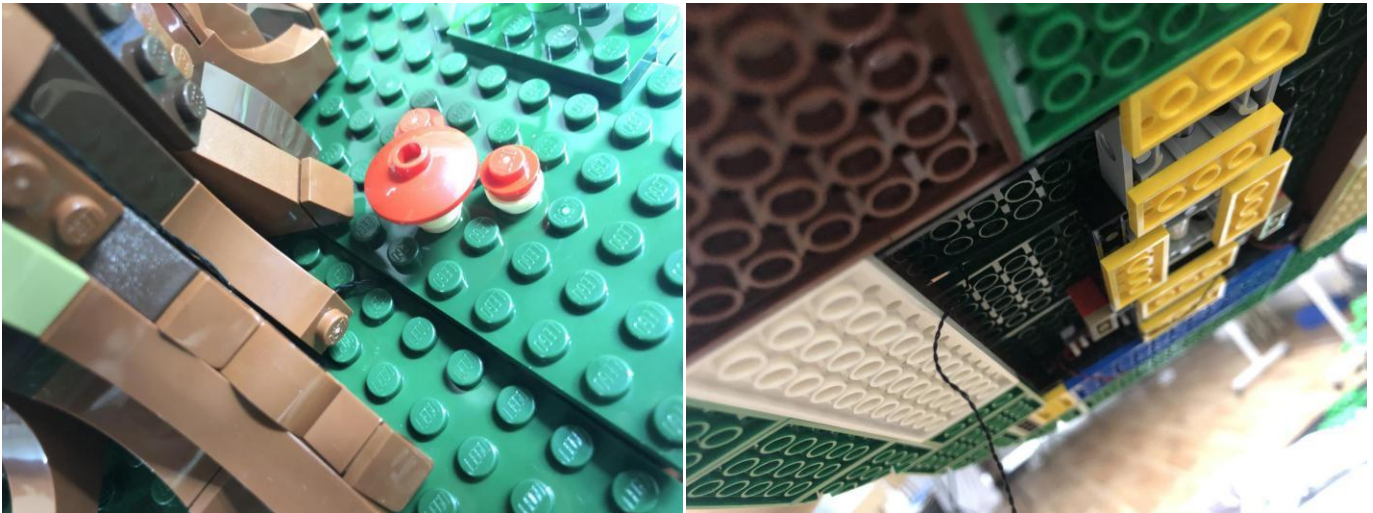


**109. Lift the following piece to thread the cable through and pull it out from the bottom.**

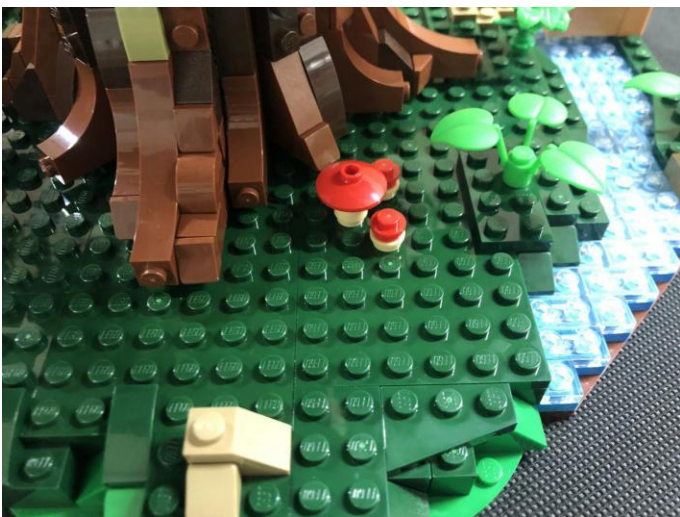




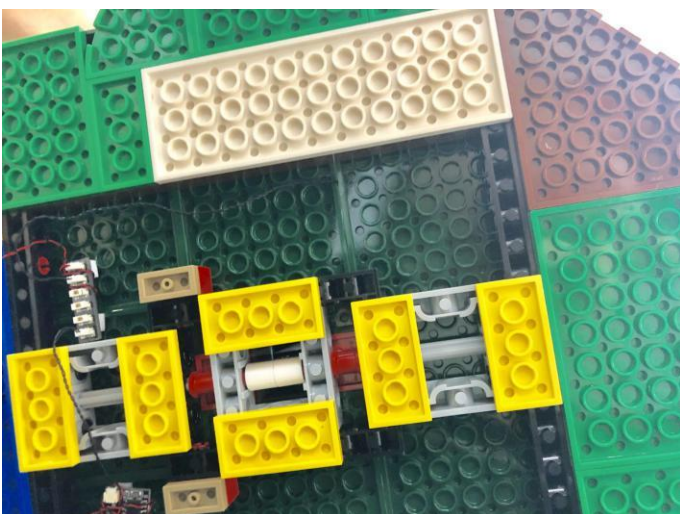
110



111.Reconnect the piece we lifted.



112.Connect the connecting cable to the expansion board underneath.





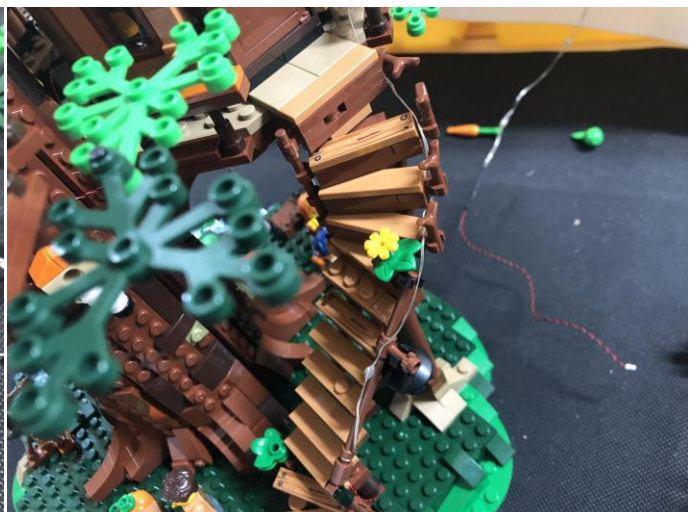
**113.You can turn the power on to test the current.**



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



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





116



117



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





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



**120. Wind the string around the railing till the end of the string.**



**121**





**122.Wind the cable downward around the post.**



**123.Take a 6-port expansion board.**

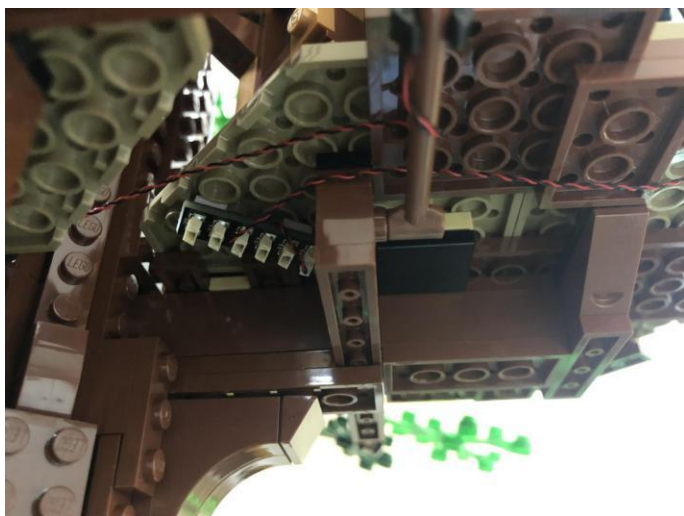


**124.Place the lightstring#1 as per below before connecting it to the expansion board.**





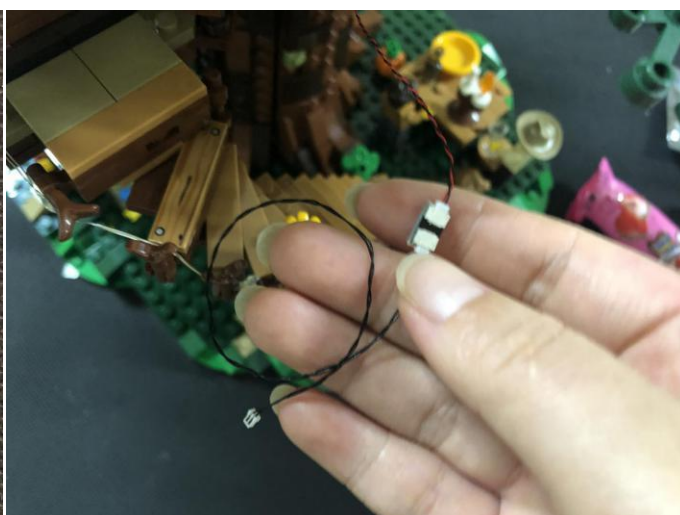
**125. Stick the expansion board to the following place with adhesive squares.**



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

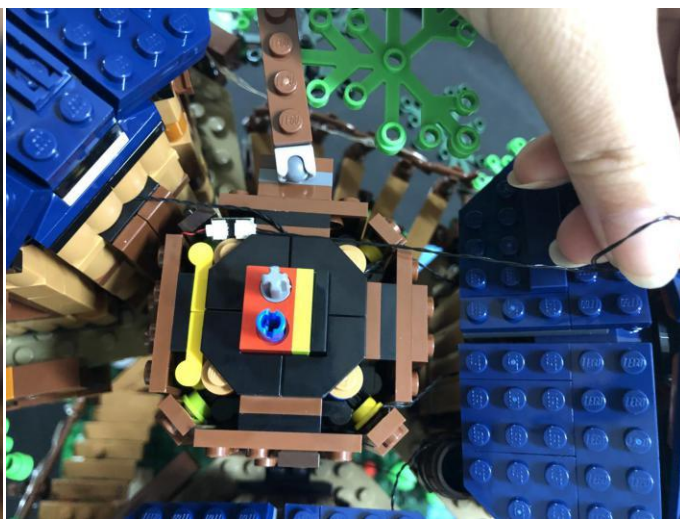


**127. Take a 15cm connecting cable, connect it to the 2-port expansion board.**





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



**129**



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





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



**132. Reconnect the roof.**



**133. Then, we will install lights for the tree.**

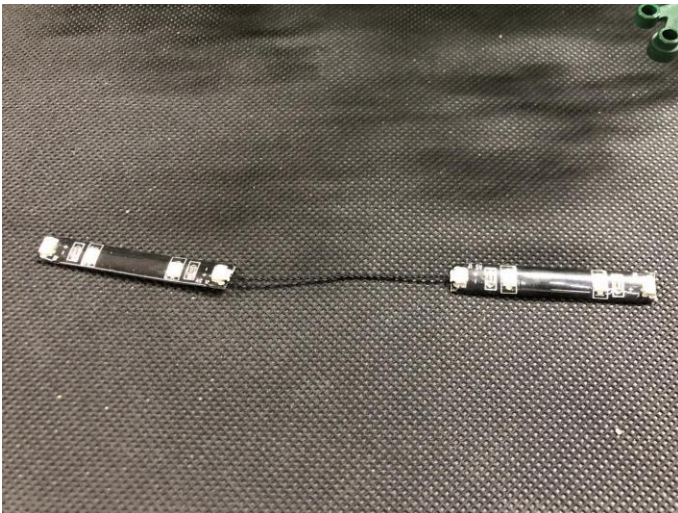




**134. Take 2 green strip lights, a 5cm connecting cable.**



**135. Assemble the 2 strip lights together by using the 5cm connecting cable, stick the strip light to the top of the trunk, stick the other strip to the trunk at the opposite side.**

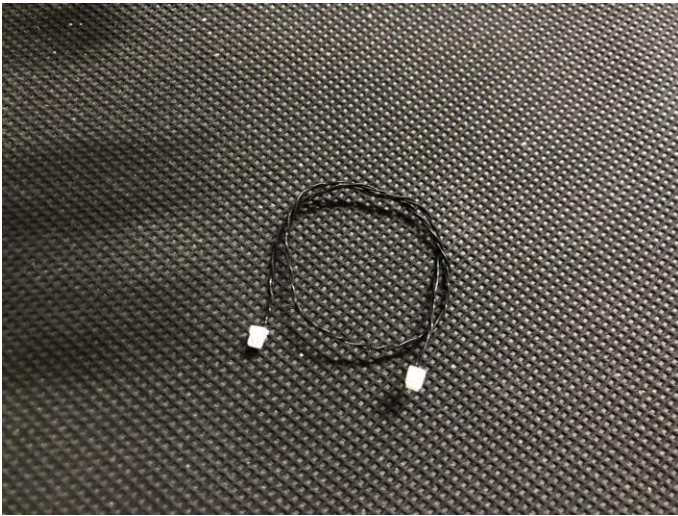


**136**

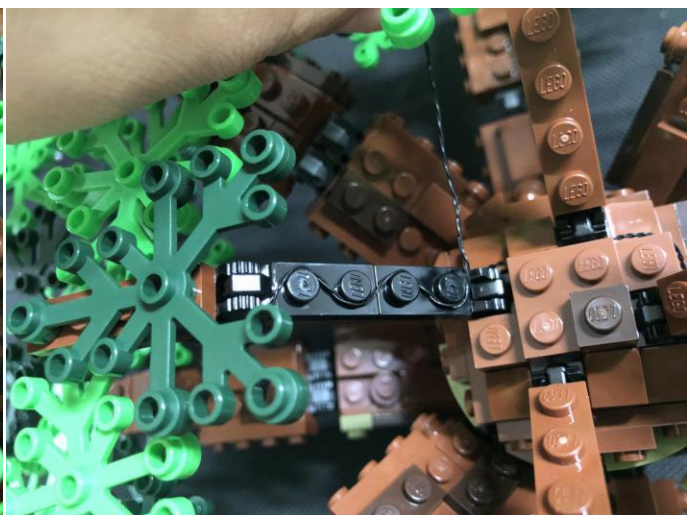




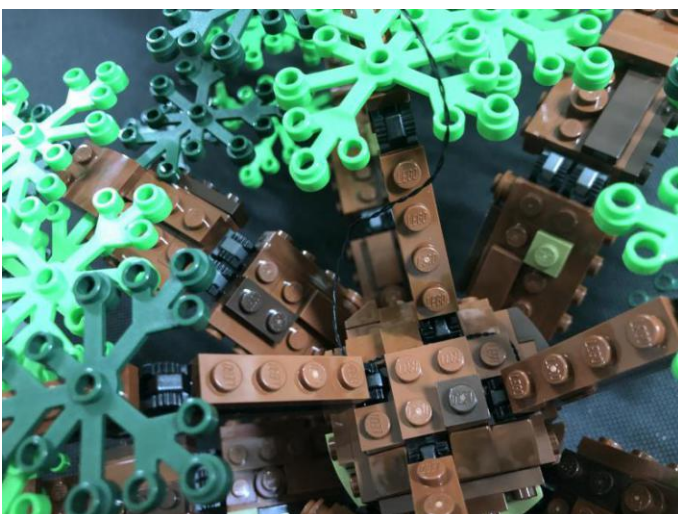
**137. Take a 15cm connecting cable, connect it to any spare port of the strip lights.**



**138. Remove the 1x4 piece, place the connecting cable as per below.**



**139. Reconnect the 1x4 piece, pull the cable downward.**

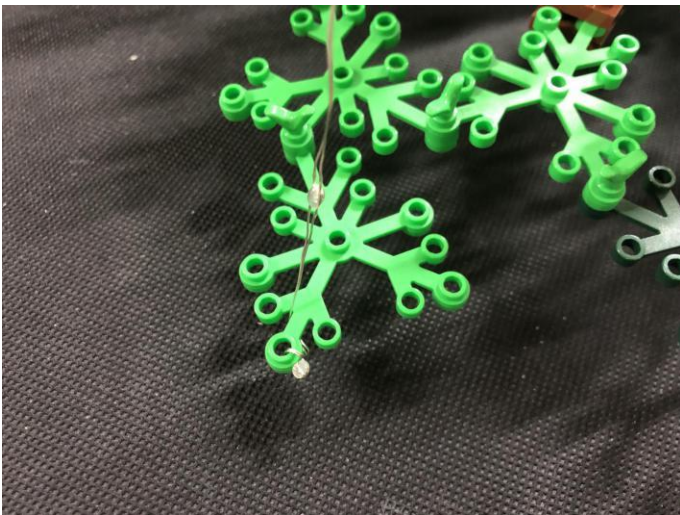




**140. Take 3 Multi Colour Light Strings.**



**141. Wind them to the tree.**



**142. Wind the strings around the leaves of the first and the second floor.**





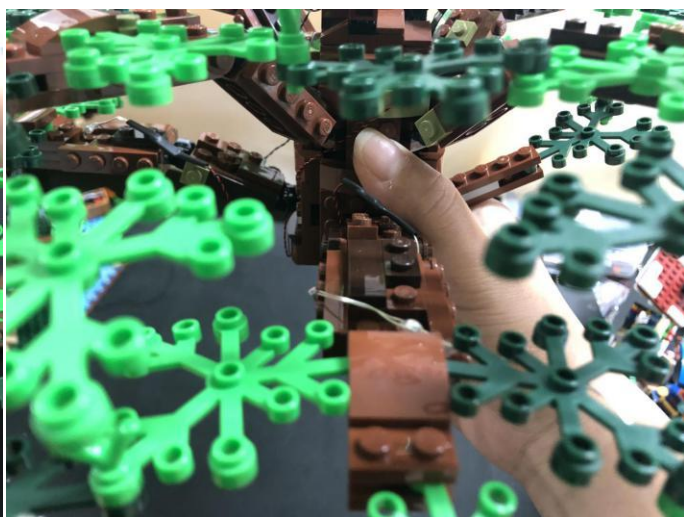
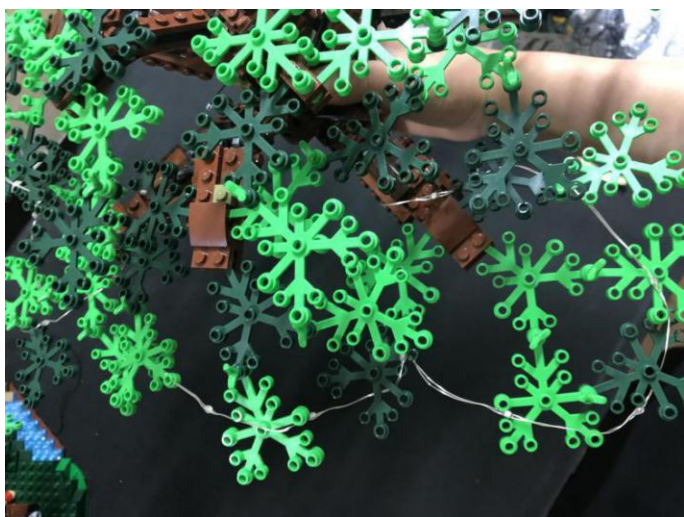
**143. After finishing the winding, pull the stings toward the strip lights.**



**144. Repeat the steps above to install the last 2 Multi Colour Light Strings as per below.**



**145**





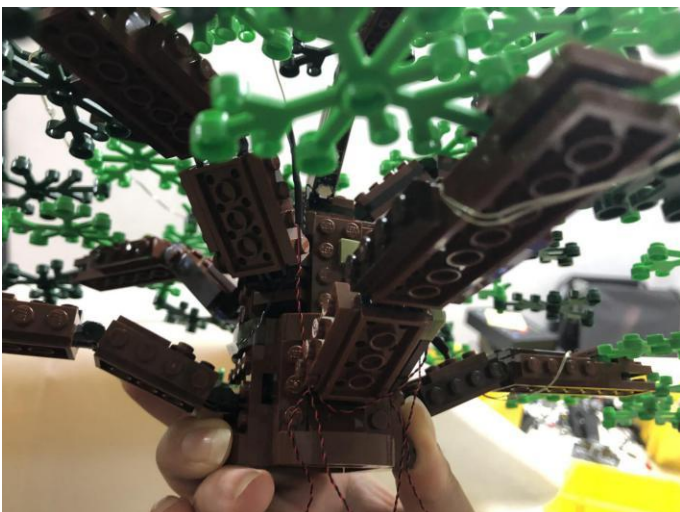
146



147. Take a Multi Colour Light String, place it at the leaves of the top floor.



148





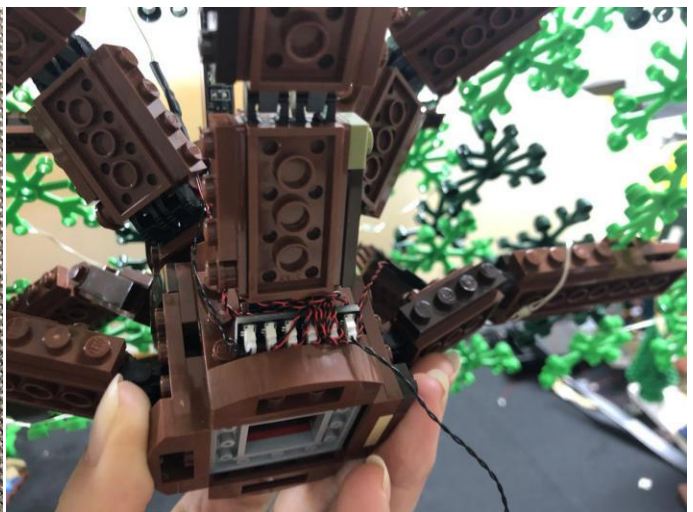
**149. Take a 6-port expansion board, turn the tree down.**



**150. Connect all the cables to the expansion board, tuck expansion board as per below.**



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





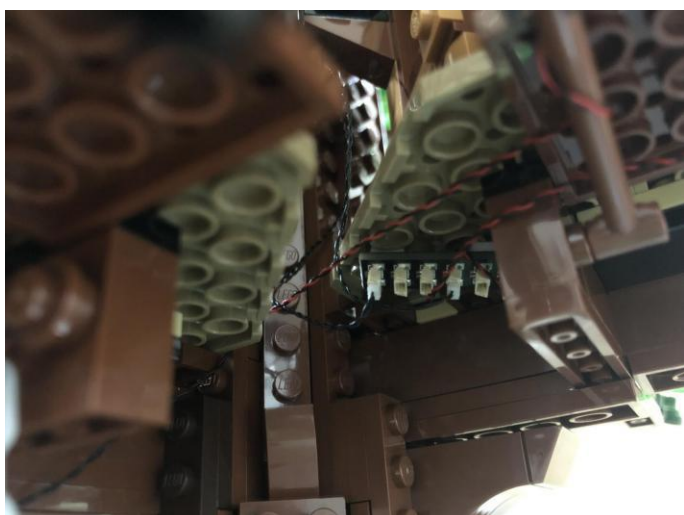
**152.Reconnect the top of the tree.**



**153.Thread the cable through the space between the bathroom and the bedroom, connect it to the expansion board which lightstring#1 is connected.**

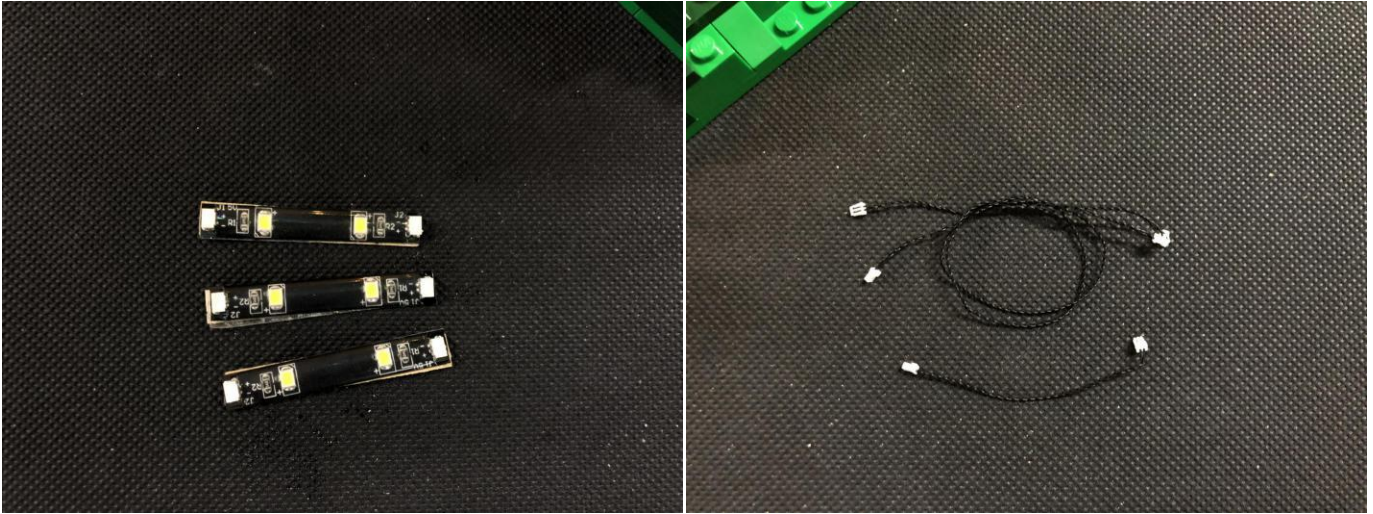


**154.Connect the cable to the expansion board.**

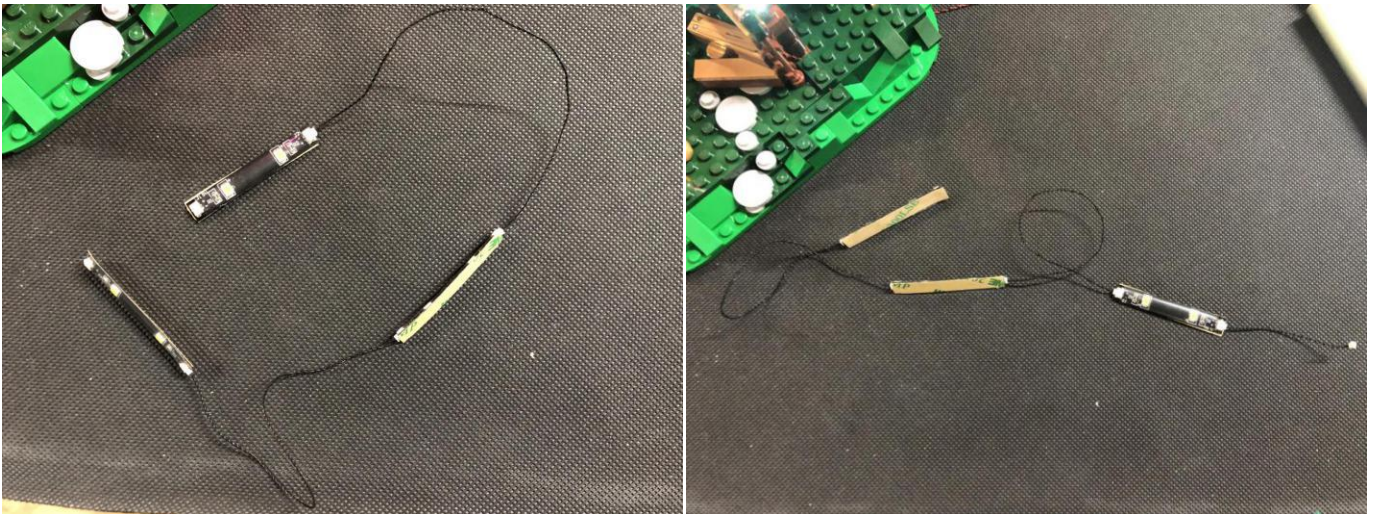




**155. Take 3 warm white strip lights, two 15cm connecting cable, a 5cm connecting cable.**



**156. 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.**

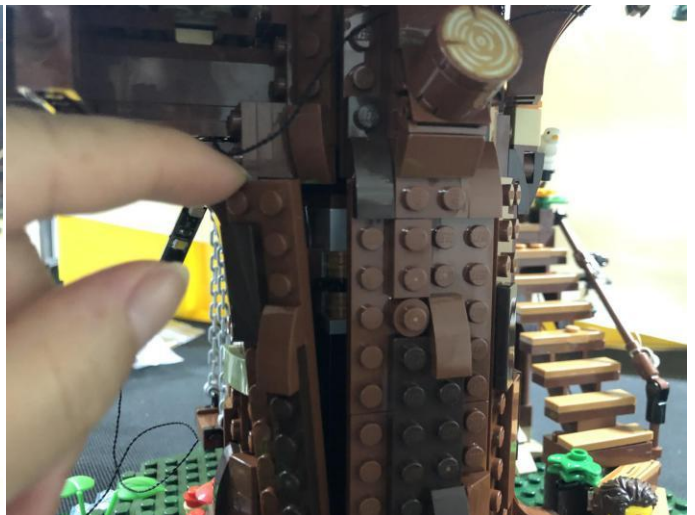




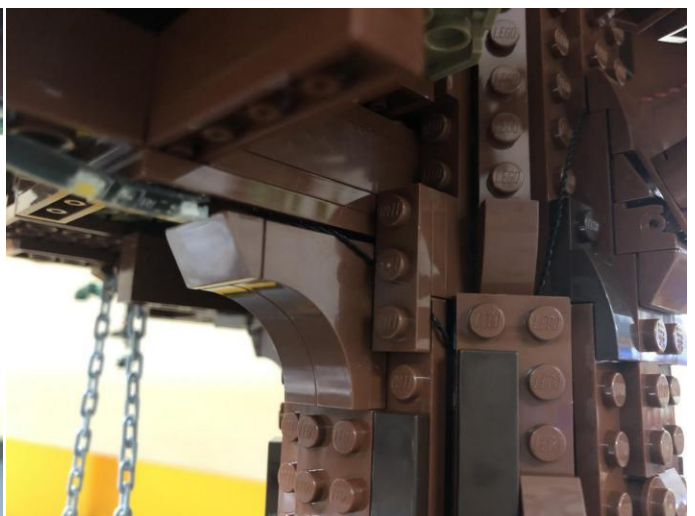
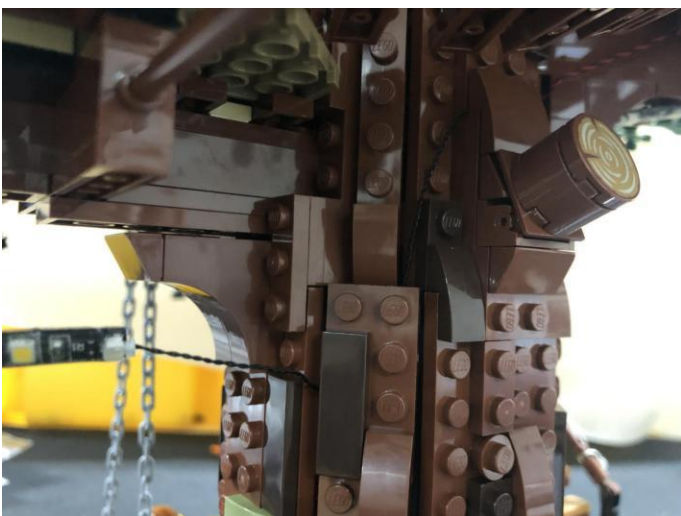
**157. Stick the far left strip light underneath the children's room.**



**158. Secure the connecting cable with the following pieces.**



**159. Place the connecting cable as per below.**

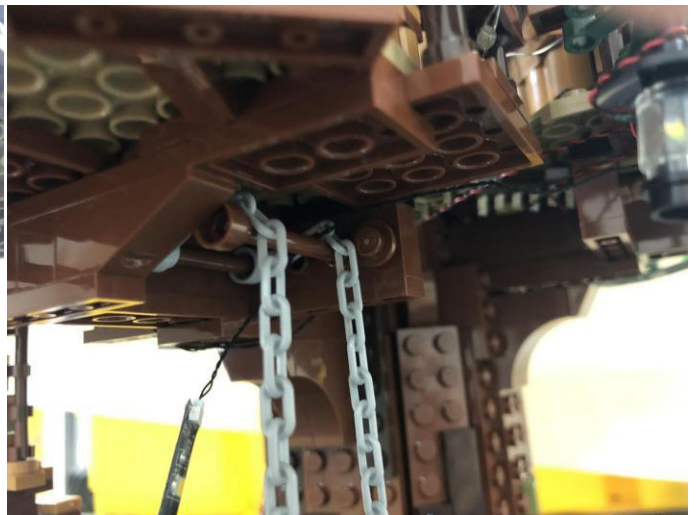
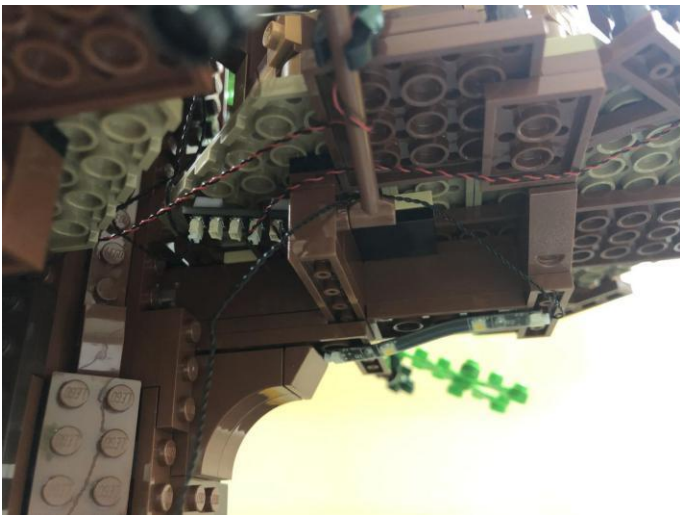




**160. Stick the second strip light underneath the bathroom.**



**161. Continue to place the last strip light as per below.**

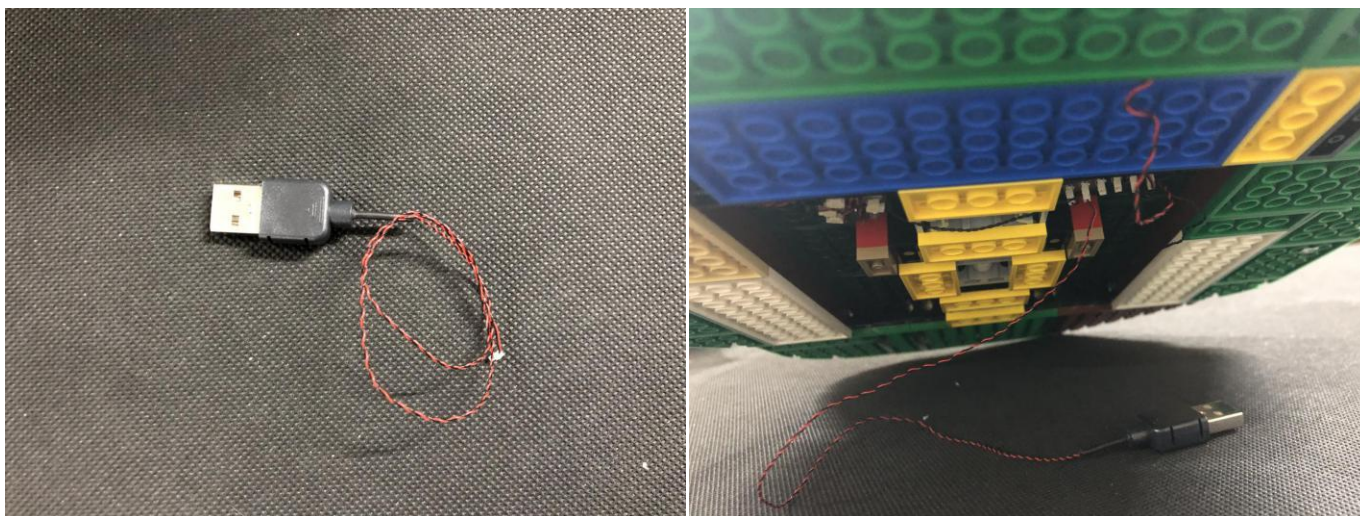


**162. Stick the strip light over the swing, connect the 5cm connecting cable to the expansion board nearby.**





**163. Take the USB cable, connect it to the expansion board underneath.**



**Good job, you've done all the installation steps, power it up and enjoy your work.**

