

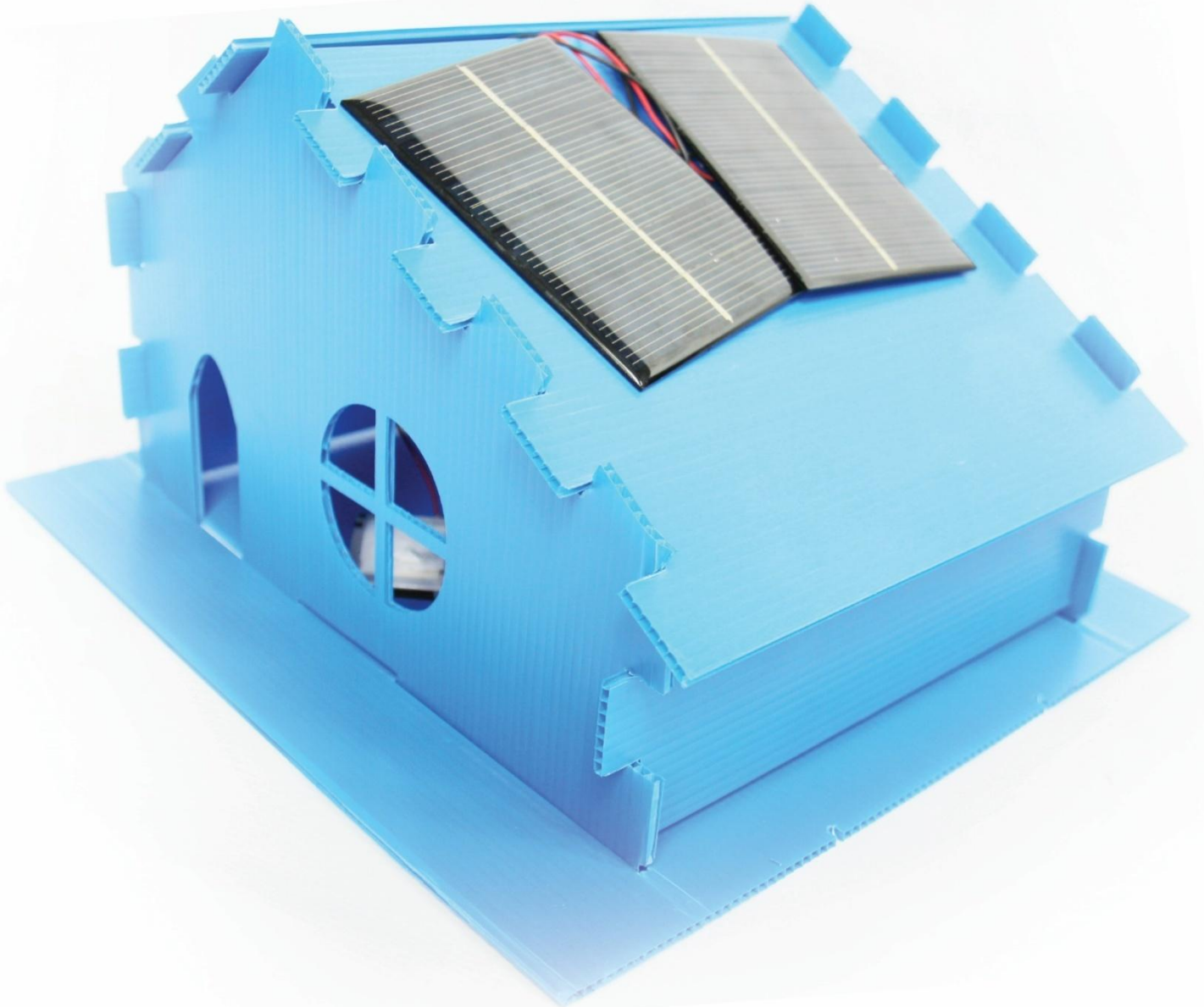


LearnOBots
Think Explore Make

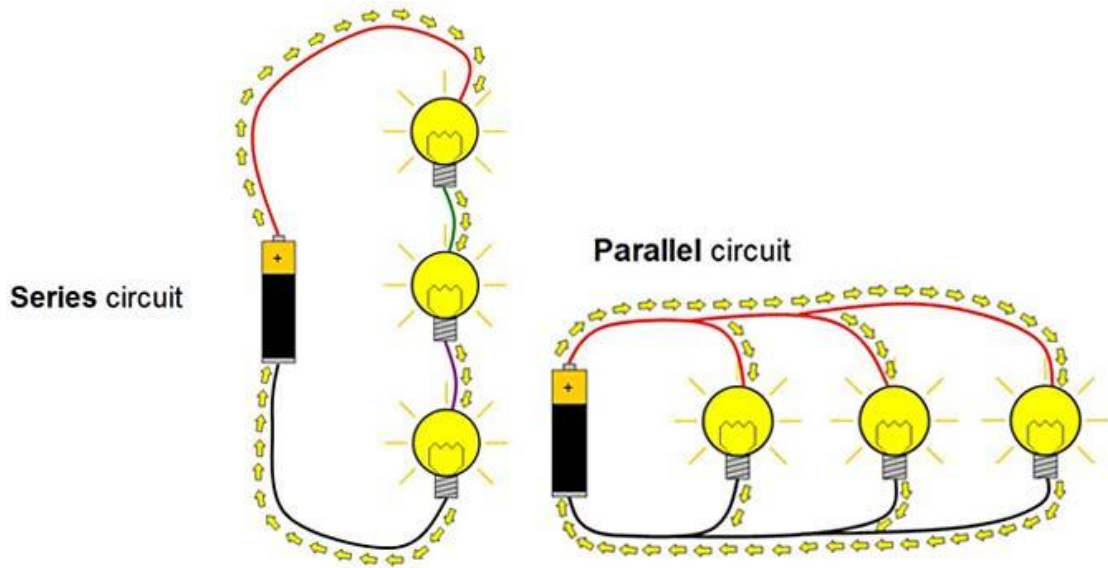
SOLAR HOUSE

6

MAKING SERIES CIRCUITS

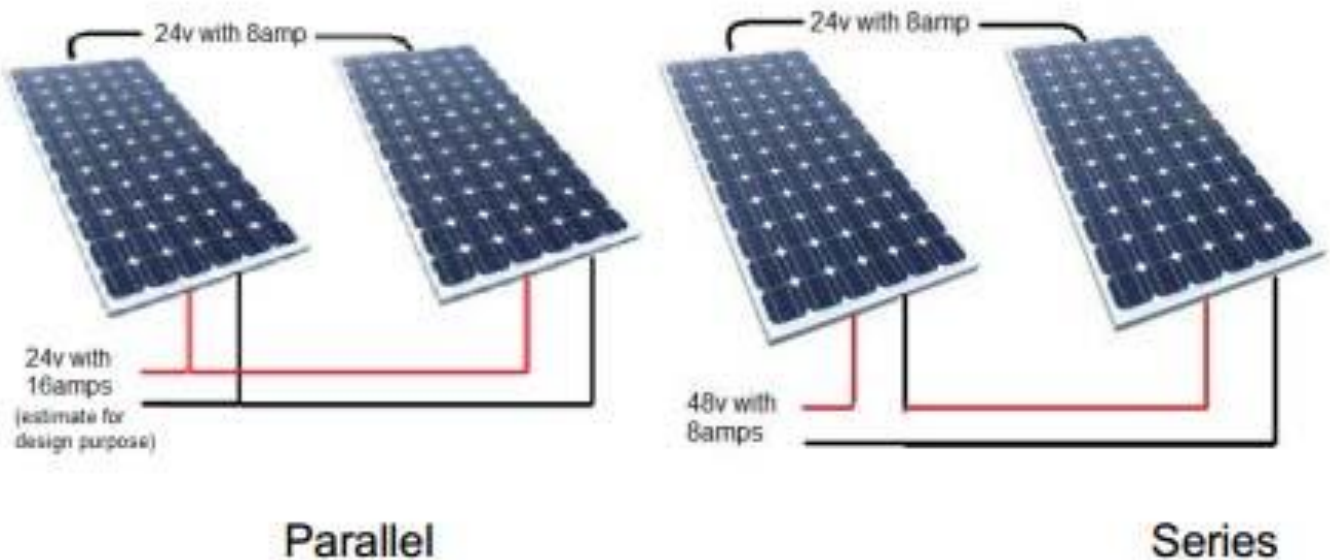


Difference between series and parallel



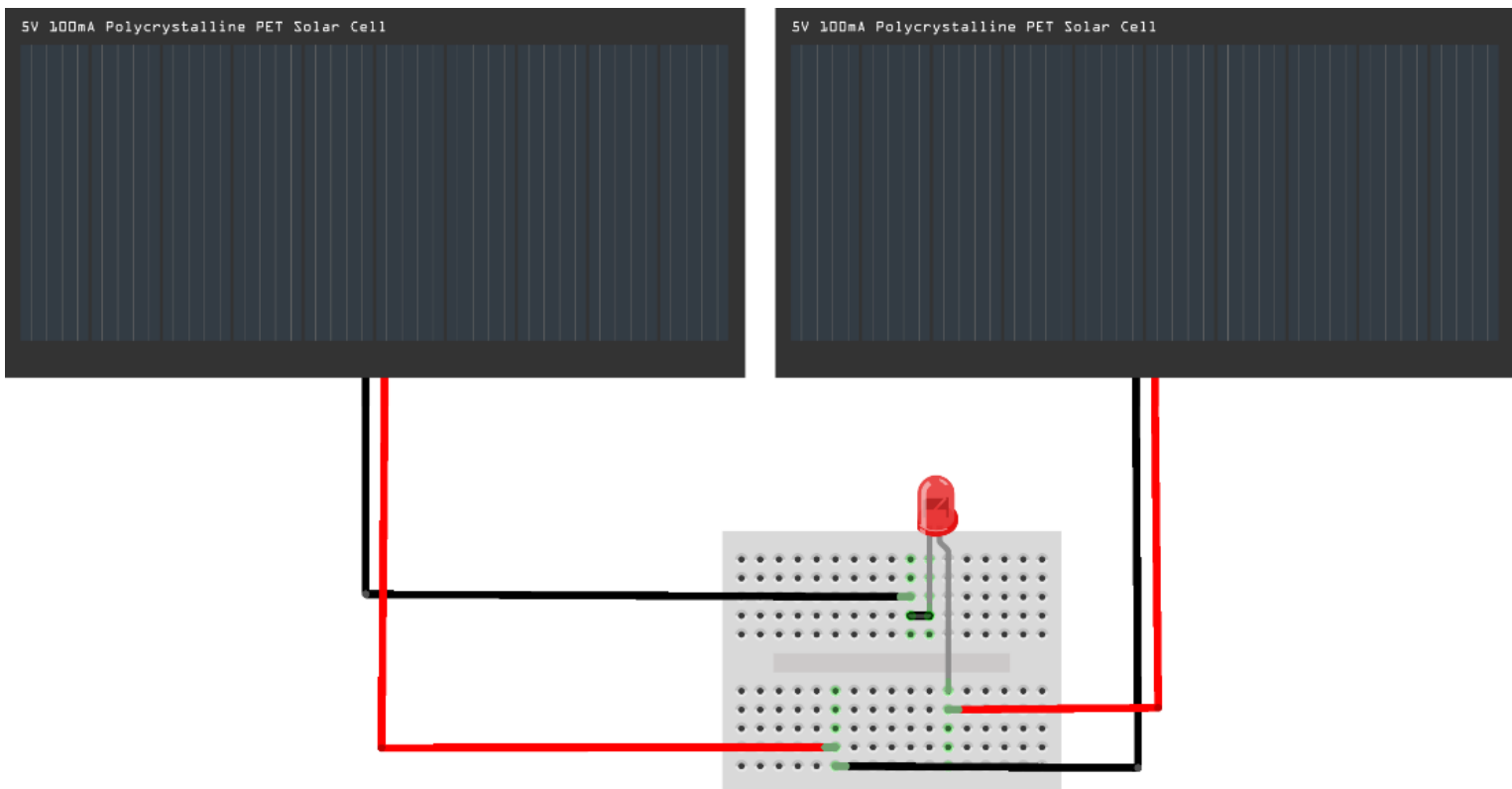
- ➔ Series connection is an end to end connection in a row
- ➔ Parallel connections have all the positive ends connected together and all the negative ends connected together.

We can connect two solar panels together in two ways (*series or parallel*)



Making a Series Circuit

We have this circuit diagram for solar panels connected in series

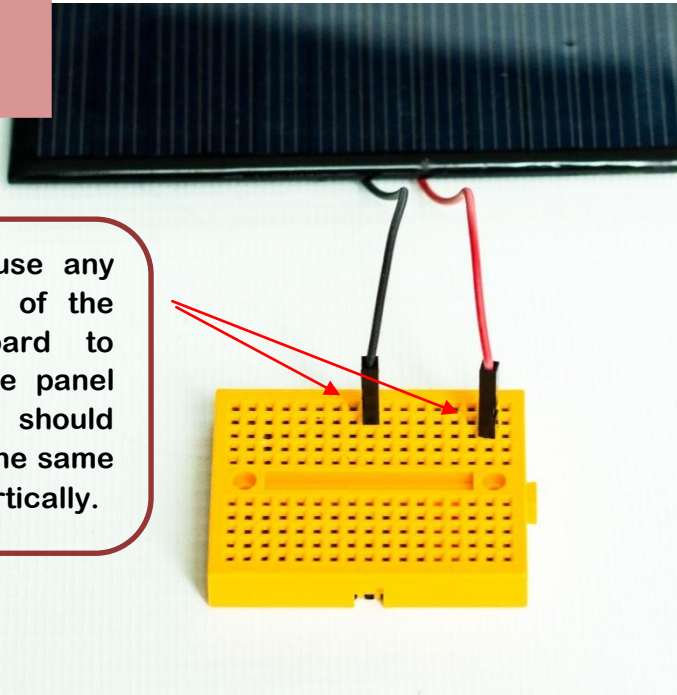


fritzing

Connecting two solar panels in series keeps the current same but doubles the output voltage.

Steps to follow!

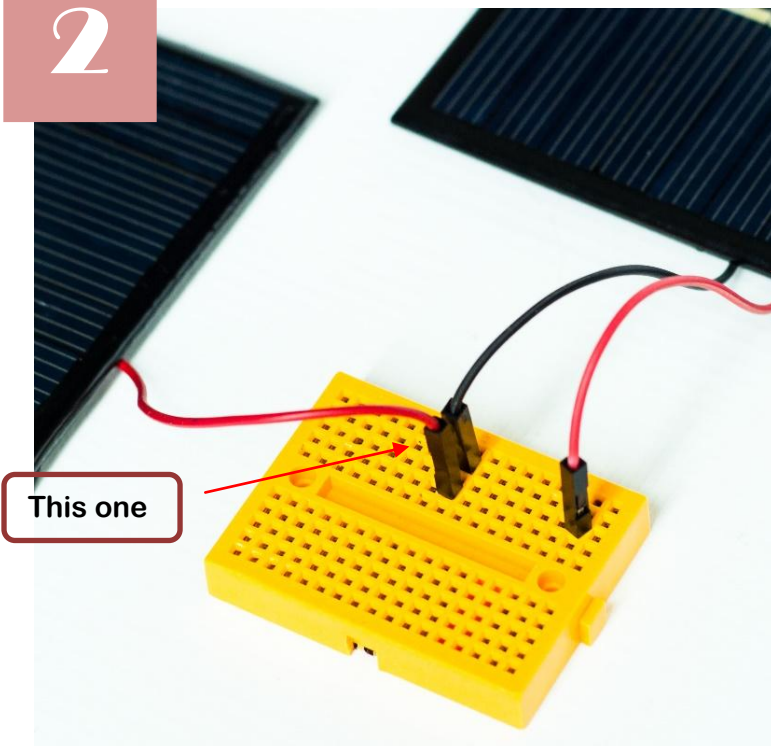
1



You can use any two holes of the bread board to plug in the panel but they should not be in the same column vertically.

Insert the red and black wire of your solar panel into your bread board

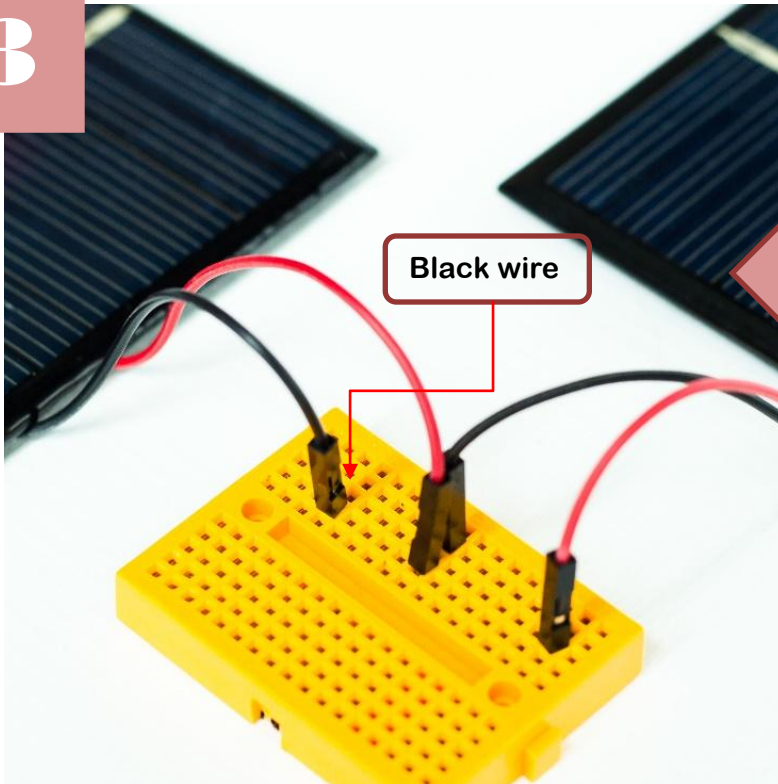
2



This one

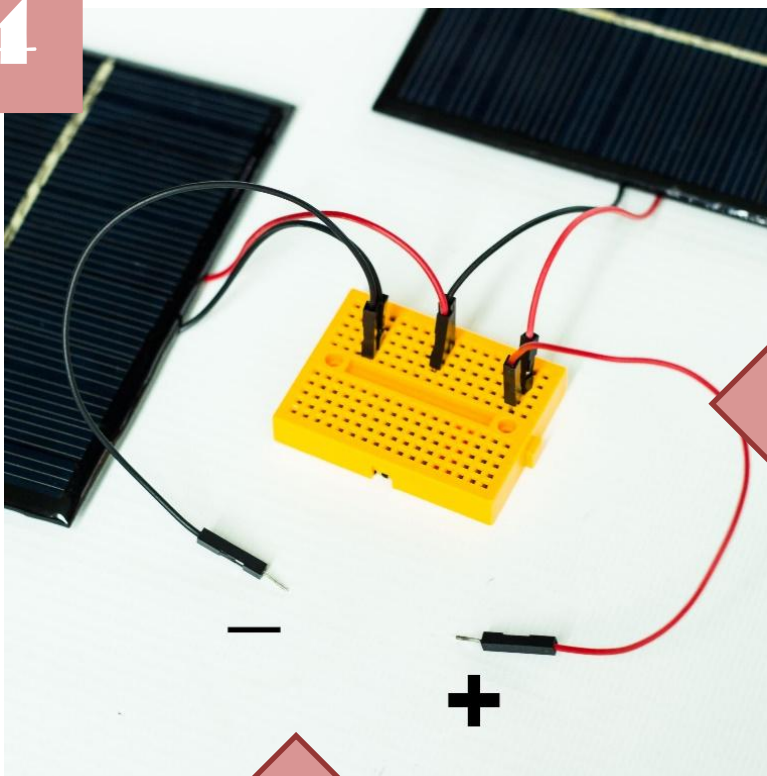
Now connect the red wire of the second solar panel in the same column of bread board where you inserted the black wire

3



Now connect the black wire of the second solar panel somewhere in the bread board

4



Now connect a red wire and a black wire in the same columns as shown to get the output terminals of the connected solar panels

The wire labeled as (+) is positive terminal and the one labeled with (-) is the negative terminal